

## **ANNEXES**

ANNEXE I: Dates, positions et profondeurs de prélèvement des échantillons.

Chalutages industriels en 1986.

Dates	Lat. (N)	Long. (W)	Prof. (m)
29.01.	20°08'	17°22'	32
31.01.	20°14'	17°16'	25
01.02.	20°13'	17°23'	30
02.02.	20°13'	17°23'	30
03.02.	20°17'	17°26'	46
04.02.	20°21'	17°27'	40
15.03.	20°05'	17°20'	30
28.03.	18°42'	16°24'	49
04.04.	20°05'	17°30'	40
05.04.	19°05'	16°40'	30
12.04.	20°14'	17°23'	28
13.04.	20°19'	17°23'	37
14.04.	20°10'	17°22'	28
17.04.	17°57'	16°21'	40
20.04.	17°45'	16°21'	40
21.04.	17°28'	16°29'	50
05.05.	--	--	--
26.06.	19°55'	17°21'	47
30.06.	20°06'	17°32'	60
07.07.	19°58'	16°23'	44
19.11.	20°07'	17°14'	20
23.11.	20°25'	17°15'	26
24.11.	20°11'	17°14'	23
02.12.	19°54'	17°14'	19

Chalutages du N'Diogo en 1986.

Dates	Lat. (N)	Long. (W)	Prof. (m)
09.09.	19°39'	16°55'	26-36
09.12.	20°10'	17°18'	33
10.12.	19°54'	17°14'	31
11.12.	19°50'	17°16'	36

Chalutages industriels en 1987.

Dates	Lat. (N)	Long. (W)	Prof. (m)
15.02.	19°43'	17°01'	85
2-15.03	--	--	--
26.03.	19°58'	17°17'	36
27.03.	20°15'	17°33'	47
30.03.	20°23'	17°16'	38
04.04.	20°34'	17°27'	50
09.04.	20°24'	17°29'	47
12.04.	20°29'	17°25'	35
02.05.	18°27'	16°22'	40
21.05.	20°03'	17°21'	35
28.06.	20°07'	17°24'	35
29.06.	20°02'	17°23'	40
01.07.	20°06'	17°18'	30
05.07.	20°03'	17°19'	51
12.07.	20°19'	17°33'	68
14.07.	20°28'	17°27'	52
18.07.	--	--	--
18.08.	20°33'	17°20'	42
26.10.	20°36'	17°284	50

Chalutages du N'Diogo en 1987.

Dates	Lat. (N)	Long. (W)	Prof. (m)
01.02.	20°15'	17°14'	23-26
05.02.	18°20'	16°14'	24-30
11.03.	20°14'	17°18'	22-24
17.03.	16°41'	16°35'	40-44
13.04.	19°55'	17°25'	26-33
10.05.	20°20'	17°25'	41
12.05.	20°18'	17°23'	37
08.06.	20°22'	17°20'	34
09.06.	20°01'	17°20'	33-36
06.11.	20°00'	17°09'	22
07.11.	20°16'	17°04'	24-27

**Annexe 2: Relations entre les différentes longueurs.**

Long. (m)	Long. (V) (m)	Long. (M) (m)
10	10	10
20	20	20
30	30	30
40	40	40
50	50	50

Chez les poissons, la longueur du corps peut se mesurer de trois façons différentes :

-la longueur standard (L.S.)- du bout du museau à l'extrémité de l'urocentrum de la dernière vertèbre;

-la longueur à la fourche (L.F.)- du bout du museau à l'échancrure des rayons caudaux;

-la longueur totale (L.T.)-du bout du museau à l'extrémité des plus longs rayons caudaux.

Dans notre étude, c'est toujours la longueur à la fourche qui a été utilisée pour caractériser la taille des poisson. Cependant, les différentes relations qui lient ces trois grandeurs entre elles sont données ci-dessous en vue d'éventuelles comparaisons. 300 individus ont été utilisés pour établir ces relations. Celles-ci sont de la forme  $Y = ax + b$ , et dans tous les cas, le coefficient de corrélation  $r$  est très proche de 1.

L.S. = 0.93	L.F. - 0.41
L.T. = 1.06	L.F. + 0.29
L.F. = 1.08	L.S. + 0.04
L.T. = 1.13	L.S. + 0.37
L.F. = 0.96	L.T. - 0.21
L.S. = 0.84	L.T. - 0.12

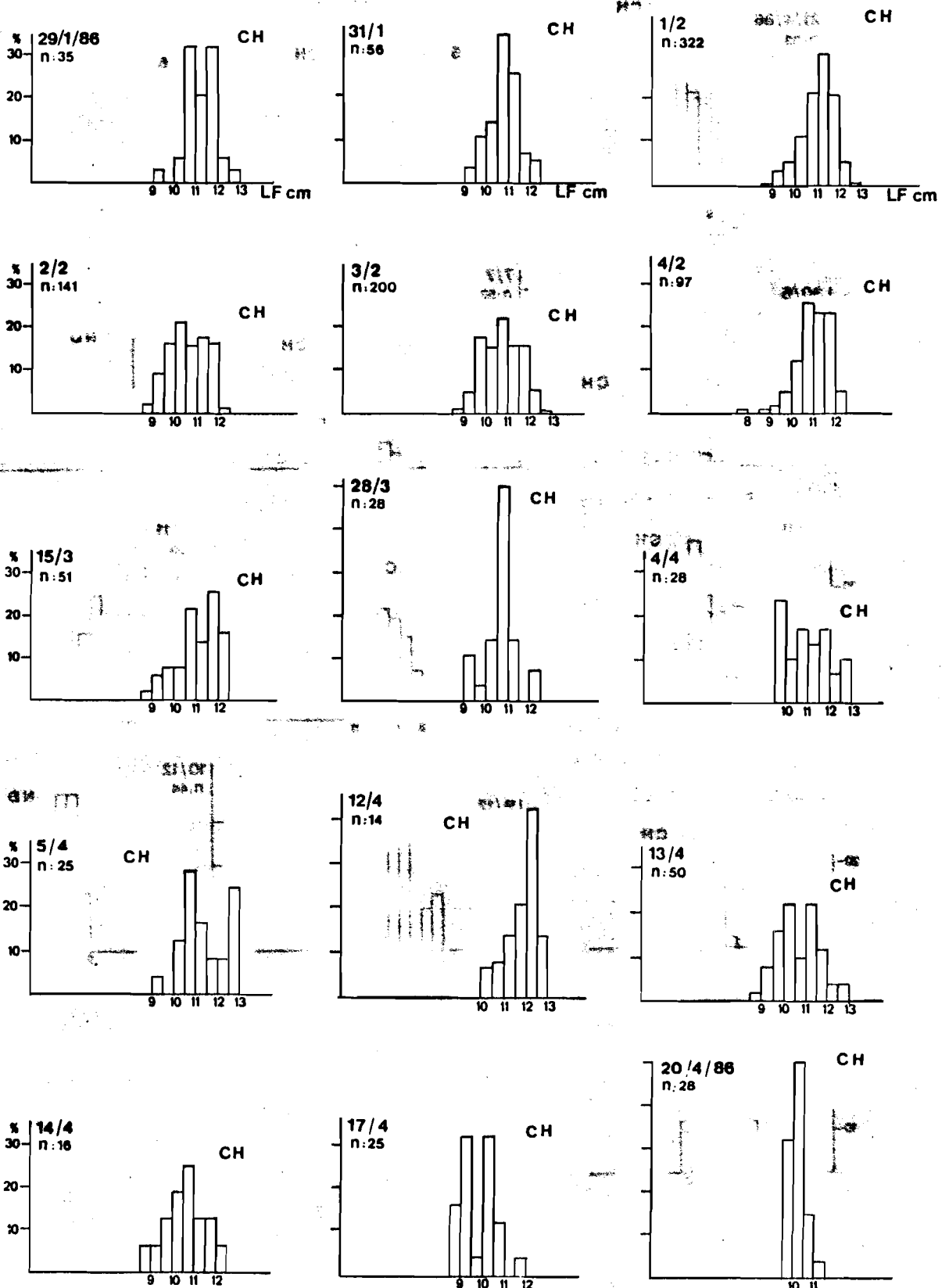
Ces équations sont valables entre 6 et 13 cm L.F.

Annexe 3 : Histogrammes des fréquences de taille des anchois capturés en 1986 et 1987 dans les eaux mauritaniennes.

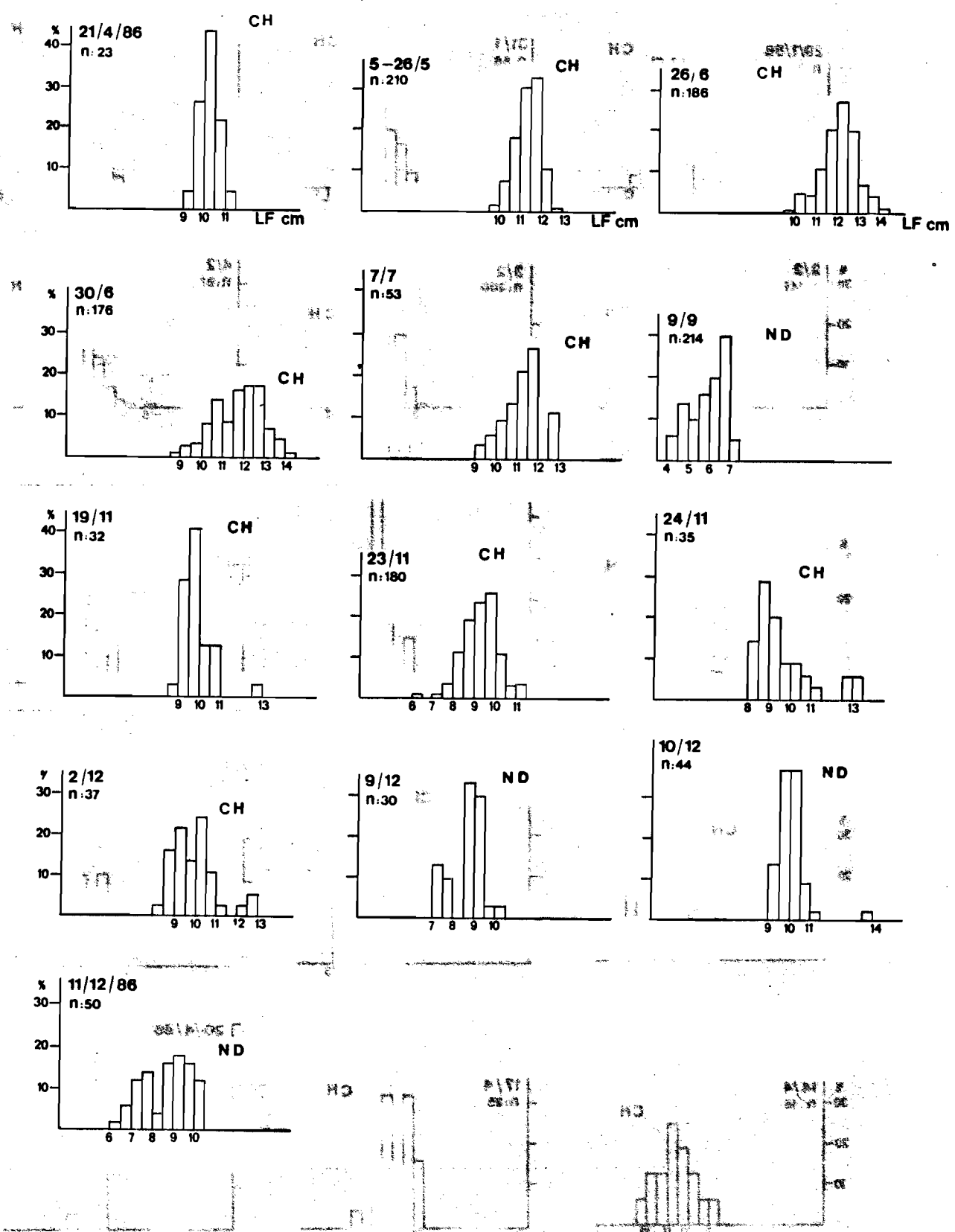
CH : échantillons récoltés à bord des chalutiers pélagiques.

ND : échantillons récoltés à bord du N'Diago.

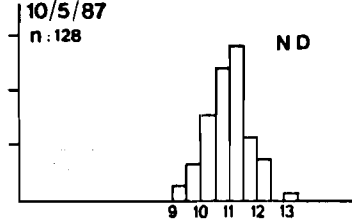
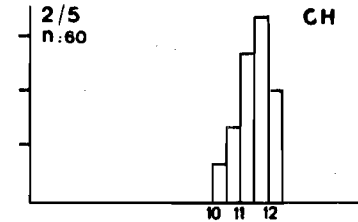
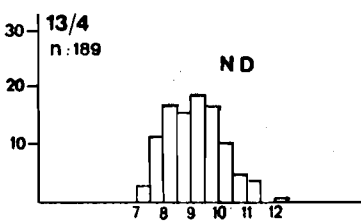
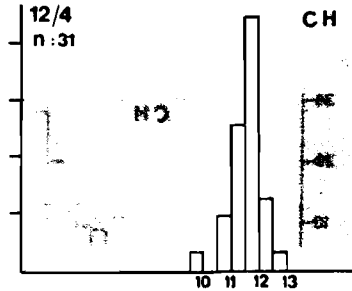
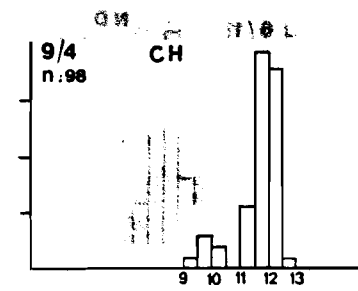
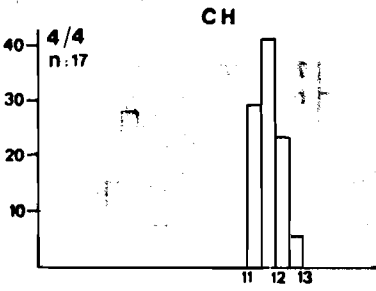
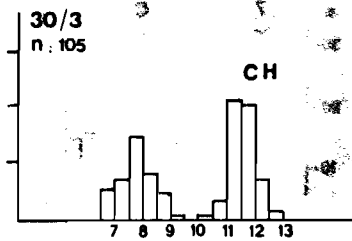
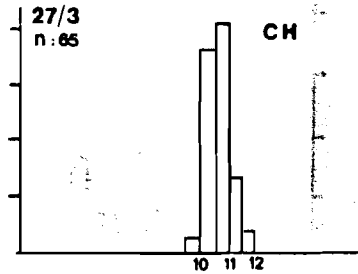
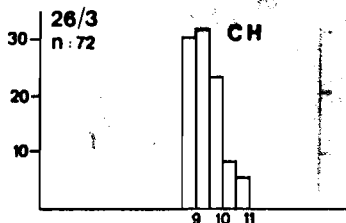
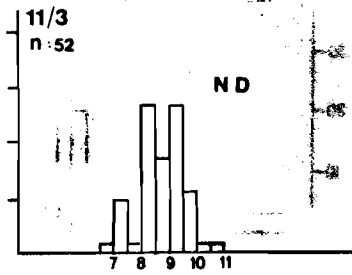
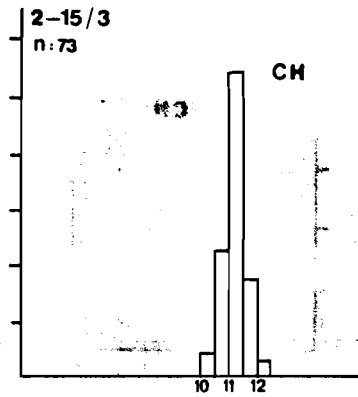
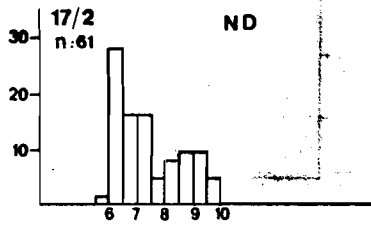
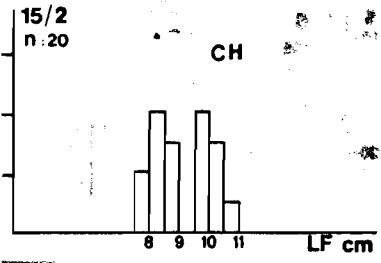
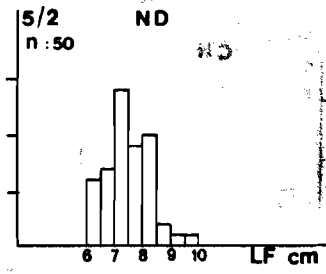
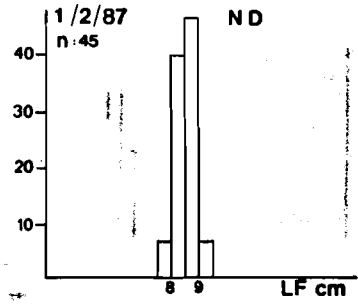
1986

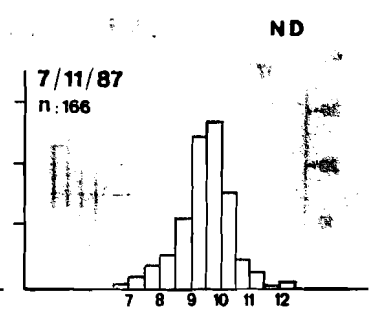
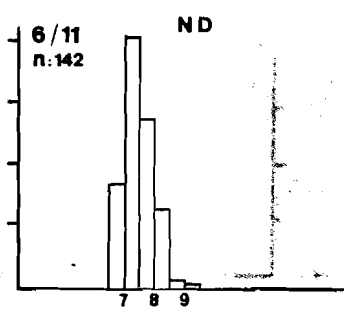
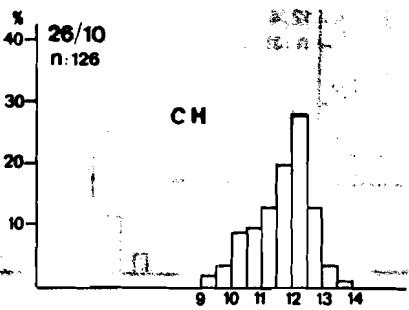
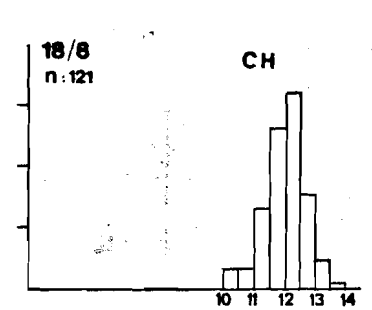
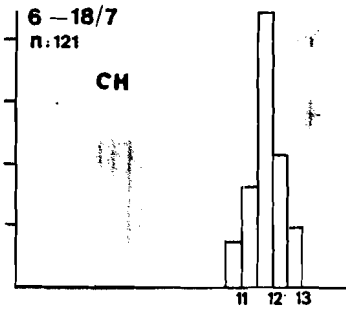
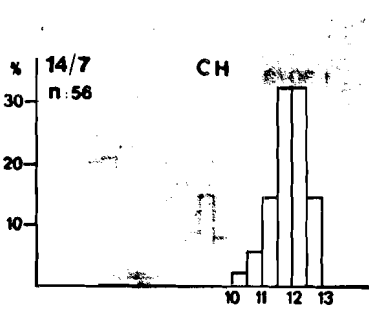
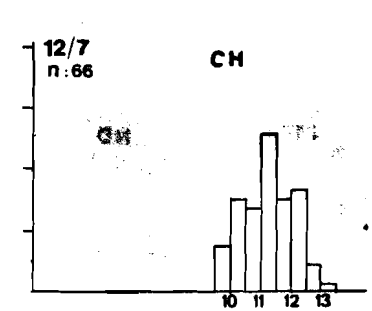
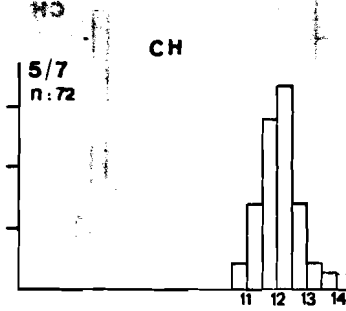
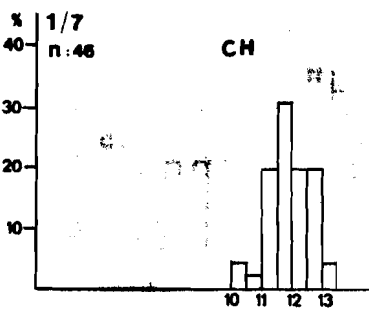
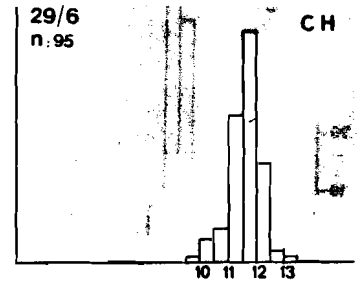
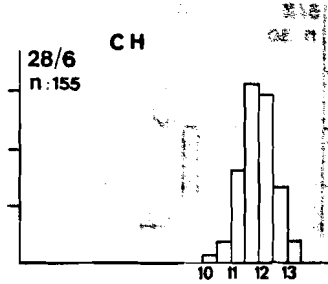
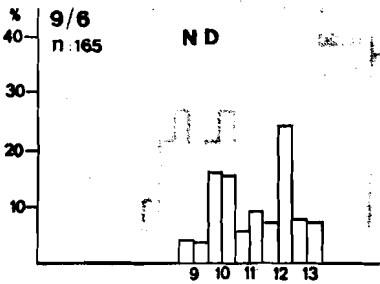
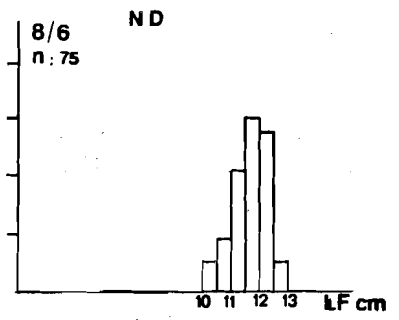
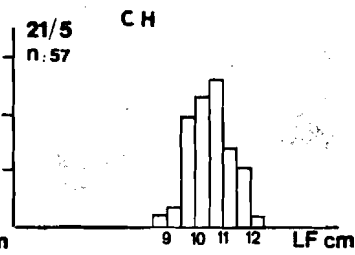
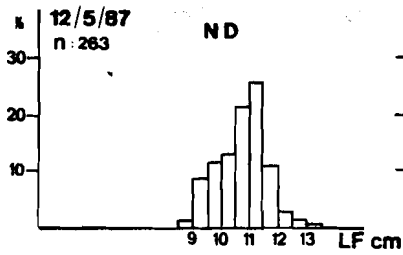


CH : additional records a bord des capitaines  
 ND : additional records a bord de



1987





Annexe 4 : Exemple d'établissement de la courbe de capture d'*E. encrasicolus* avec  $L_{\infty} = 14$  cm,  $K = 1.58$  et  $t_0 = 0.0012$ .

Dt = durée de vie dans la classe; N = effectif.

Limite de classe		Age		Dt	N	N/Dt	Log N/Dt	Age médian
Inf.	Sup.	Entrée	Sortie					
6.0	6.5	0.35	0.39	0.045	123	2 733	7.9	0.37
6.5	7.0	0.39	0.44	0.048	847	17 646	9.8	0.42
7.0	7.5	0.44	0.49	0.045	1 296	28 800	10.3	0.46
7.5	8.0	0.49	0.54	0.046	11 621	252 630	12.4	0.51
8.0	8.5	0.54	0.59	0.051	21 583	423 196	12.9	0.56
8.5	9.0	0.59	0.65	0.061	25 225	413 525	13.0	0.62
9.0	9.5	0.65	0.72	0.067	43 749	652 970	13.4	0.68
9.5	10.0	0.72	0.79	0.072	63 111	876 542	13.7	0.75
10.0	10.5	0.79	0.88	0.086	94 829	1 102 662	13.9	0.83
10.5	11.0	0.88	0.97	0.093	139 899	1 504 290	14.2	0.92
11.0	11.5	0.97	1.09	0.121	182 912	1 703 357	14.4	1.03
11.5	12.0	1.09	1.23	0.140	228 470	983 319	14.1	1.15
12.0	12.5	1.23	1.41	0.182	179 964	349 793	13.8	1.31
12.5	13.0	1.41	1.67	0.256	89 547	42 876	12.8	1.53
13.0	13.5	1.67	2.20	0.533	22 853	1 423	10.7	1.86