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Working Paper

Atlas of length-weight relationships of 93 fish and crustacean species from the North Sea and the North-East Atlantic

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Atlas of Length-Weight Relationships

of 93 fish and crustacean species from the North Sea and the North-East Atlantic

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Thünen Working Paper 12

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Thünen Woking Paper 12

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*List of accepted species names

Scientific name

listed in the Atlas	accepted in WoRMS
Aspitrigla cuculus	*Chelidonichthys cuculus*
Gasterosteus aculeatus	*Gasterosteus aculeatus aculeatus*
Liparis liparis	*Liparis liparis liparis*
Psetta maxima	*Scophthalmus maximus*
Raja batis	*Dipturus batis*
Raja naevus	*Leucoraja naevus*
Raja radiata	*Amblyraja radiata*
Rhinonemus cimbrius	*Enchelyopus cimbrius*
Sebastes marinus	*Sebastes norvegicus*
Solea vulgaris	*Solea solea*
Trigla lucerna	*Chelidonichthys lucerna*
Trisopterus esmarki	*Trisopterus esmarkii*

Abstract

This document presents an atlas of length-weight relationships of 93 different fish and crustacean species from the North Sea and the North-East Atlantic. The length and weight data are based on individual measurements from German fisheries research surveys and German commercial fishing vessels, conducted by members of the Thünen Institute of Sea Fisheries (and its predecessor institution).

With the first survey carried out in 1959 and the latest data entered in 2011, the compilation is based on a comprehensive data set collected over more than 50 years. An extensive overview on length weight relationships is given by geographical area, season and partly by sex, of the described species.

Users, who would prefer using relationships based on other time series or subunits, which are not represented in the Atlas, are invited to contact the author for the respective subsets of data.

Introduction

In fisheries research, data for individual species are often collected with measurements of body length, as this parameter is faster obtained than individual weights. Yet, many size-based analyses are dependent on weight data, for which the measured data need to be transformed with a reliable length-weight relationship.

Valid data on length-weight relationships are very important additional parameters for the biological description of marine species and essential for calculation of the biomass from length frequency.

In other cases, where individual fish weights are taken together with length in order to derive conclusions about the condition of the individuals investigated (e.g. Fulton's condition index), it is helpful to compare against a broad average value for this relationship.

This atlas presents an overview on length-weight parameters from fish and crustacean species in North European waters. In contrast to other publications on length-weight relationships (e.g. Coull et al. 1989) this atlas is based largely on current data and on a large data set collected on research and commercial vessels. This ensures that not only a wide geographical area is covered but also a large length range within the described species, because the samples were collected with different nets and mesh sizes on different vessels.

In addition, for each length-weight relationship, the geographical distribution of used data points is clearly represented in a map.

Because of the constant alterations of the naming due to ongoing research, some listed species were changed to other actual valid scientific names (e.g. *Raja radiata),* which are mentioned in an extra table ("List of accepted species names").

This work is not intended to be exhaustive and will be continually improved and supplemented.

Material and methods

All biometric data were collected on several German research vessels during routine surveys conducted by the Thünen Institute of Sea Fisheries (or its predecessor institution). Additionally, data were collected by scientific observers of the TI-SF on commercial fishing vessels. Most length and weight data were taken from freshly caught specimens, but in some cases - especially for herring, mackerel, horse mackerel and sprat - a subsample of the collected individuals was deep frozen aboard the ships and measured after defrosting in the home laboratory. As this fraction was only a small part of the whole data set which had no measurable influence on the analysis, for these species the length-weight-relationships are based on a combination of both fractions.

All length weight data are stored in a Microsoft Access database with currently over 800.000 records covering the years 1959 until 2011, which is continually updated with new entries. Therefore, new species will be added to this compilation in future or the existing database will be amended in order to enhance the analysis, particularly for rare species with fewer data points. If this is done, a new version of this report will be published to allow explicit reference to the length-weight relationship applied by the user.

For every existing entry the geographical position and the date of the observation are known, therefore it would be possible to conduct an analysis for subunits of the area covered and/or a specified time period, which is not currently represented in the atlas. However, this is beyond the scope of this document but if you are interested in such an analysis you are invited to contact:

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Calculation of length-weight relationships

The relation between length and weight can be described in the following formula (Le Cren, 1951)

$$\boldsymbol{Tw = a * L^b},$$

where “Tw” is the total weight and “L” the length of the species.

By a given weight the length can be calculated by transforming the equation:

$$\boldsymbol{L = \left(\frac{Tw}{a}\right)^{\frac{1}{b}}}.$$

The coefficients “a” and “b” were estimated by the potential regression $\boldsymbol{y = a * x^b}$ in Microsoft Excel.

For all described species the unit of total weight is gram (g). The units for length are centimeters (cm) in case of fish and millimeters (mm) in case of crustaceans. It can be distinguished between following methods of length measurements:

a) Total length in cm for all fishes (measured from tip of snout to tip of caudal fin),

b) Total length in mm for *Crangon* spec. (measured from begin of the head to tip of the telson),

c) Carapace length in mm for *Nephrops norvegicus* and *Lithodes maja* (measured from begin of the rostrum to the end of carapace),

d) Carapace width in mm for *Cancer pagurus* (measured at the point of its maximum width).

In cases where for very small fish the length data for calculation the biomass are in mm **instead of cm** (e.g. ***Gobiidae)***, the parameter "**a"** has to be recalculated with the formula

$$\boldsymbol{a}_{[mm]} = \frac{\boldsymbol{a}_{[cm]}}{\mathbf{10}^{\boldsymbol{b}}}$$

If the length data are given in cm **instead of mm** (e.g. ***Crustacea***), the parameter "**a"** has to be recalculated with the formula

$$\boldsymbol{a}_{[cm]} = \boldsymbol{a}_{[mm]} * \mathbf{10}^{\boldsymbol{b}}$$

The methods of measurement per type are always listed in the paper. In some small species different units of measurement were used (e.g. *Callionymus lyra*: cm below, mm below), to obtain more accurate data. For calculation the Regression all data were of course adjusted to the standard unit of length (see above), but inaccurate data was never brought to a better level.

For calculation of the coefficients, significant outliers were eliminated by visual inspection the raw data. For poorly manageable large data sets no data were considered where the deviation from the expected weight, compared to the measured weight, was more than 50%.

In general, the regressions consider the data of the last 10-15 years, but please note that the first reports were made already in 2007. Accordingly, regressions that were created later contain more recent data. If there were not enough data in the 15-year time period, also older or even all available entries were used.

At least one length-weight relationship is given for every listed species. In case of species, which are routinely separated into males and females during the onboard measurements (for example dab, elasmobranchs, crustaceans), sex-specific length-weight relationships are shown. For a few commercially important species like cod, haddock, whiting, saithe, etc. data are also presented on a quarterly or even monthly basis. However, different time periods were considered if a sufficiently large amount of data was available for each season. For each regression additional information is given in a specific section and the geographical

distribution of the used data is shown in a separate map. Depending on the species three different maps were used to show the distribution of the data:

a) **The German Bight**
b) **North Sea/ British Isles**
c) **The complete ICES Area**

In order to get a better resolution for some widely distributed species, two different maps are shown in some sections. Due to technical reasons it might be possible that in a few cases (e.g. *Aspitrigla cuculus*) some data points are shown outside the map frame.

Structure of the Atlas (pdf)

The atlas is an interactive pdf document. The "**table of contents**" is linked to the individual sections of the document. By clicking on a desired species in the contents list, you will automatically reach the map with its geographical distribution. The second page for each species always contains the regression equation with further details, which can be reached by clicking on the map. In this way you can easily switch between the two pages.

The next major section is the "**overview"** of the alphabetically listed species with the most important data. By clicking on a scientific name, you get to the regression with all details.

Basically, you can always jump between the distribution and the regression with a simple click on the current page. The navigation can of course always be controlled via the bookmarks.

Acknowledgements

I would like to thank all scientists, technicians and students who were involved in the measurements on research surveys and observer trips.

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Coull, K.A., A.S. Jermyn, A.W. Newton, G.I. Henderson and W.B. Hall, 1989. "Length - weight relationships for 88 species of fish encountered in the North East Atlantic". Scottish fisheries research report no. 43, Department of Agriculture and Fisheries for Scotland. 81 p. (ISSN 0308-8022)

Le Cren, E.D. (1951): "The Length-Weight Relationship and Seasonal Cycle in Gonad Weight and Condition in the Perch (*Perca fluviatilis*)", *The Journal of Animal Ecology*, Vol. 20, No. 2. (November 1951), S. 201-219.

Overview

Scientific Name	a	b	R^2	Length specification	Length class		N
					Min	Max	
Agonus cataphractus	0.0104	2.8669	0.9528	Total Length[cm]	2.75	18.5	458
Alosa fallax	0.0059	3.0778	0.9753	Total Length[cm]	5.5	53.5	491
Ammodytes marinus	0.001	3.4395	0.9867	Total Length[cm]	6.35	19.25	169
Ammodytes tobianus	0.0063	2.6927	0.9123	Total Length[cm]	7.75	24.25	50
Anarhichas lupus	0.0078	3.0468	0.9661	Total Length[cm]	4.5	105.5	675
Anguilla anguilla	0.0008	3.1851	0.9456	Total Length[cm]	6.5	80.5	609
Argentina silus	0.0025	3.3006	0.9812	Total Length[cm]	6.5	46.5	492
Argentina sphyraena	0.0021	3.346	0.9872	Total Length[cm]	5.5	45.5	748
Arnoglossus laterna	0.0063	3.084	0.9875	Total Length[cm]	1.65	16.5	1518
Aspitrigla cuculus	0.0061	3.1054	0.98	Total Length[cm]	12.5	36.5	130
Belone belone	0.0011	3.0368	0.9708	Total Length[cm]	8.5	82.5	60
Brosme brosme	0.0036	3.2609	0.963	Total Length[cm]	23.5	80.5	121
Buglossidium luteum	0.0079	3.1092	0.9818	Total Length[cm]	1.25	13.5	3082
Callionymus lyra	0.0204	2.5784	0.9568	Total Length[cm]	3.4	29.5	1234
Callionymus maculatus	0.0282	2.3129	0.9029	Total Length[cm]	4.5	16.5	196
Callionymus reticulatus	0.0159	2.5712	0.8438	Total Length[cm]	4.25	18.5	186
Cancer pagurus	0.00025	2.90285	0.95489	Carapace Width[mm]	16.5	222.5	419
Cancer pagurus - Female ♀	0.00028	2.87693	0.9569	Carapace Width[mm]	16.5	222.5	167
Cancer pagurus - Male ♂	0.00019	2.96327	0.95733	Carapace Width[mm]	45.5	208.5	218
Capros aper	0.0346	2.7595	0.9255	Total Length[cm]	8.5	16.5	242
Ciliata mustela	0.0052	3.169	0.9161	Total Length[cm]	7.5	23.5	307
Clupea harengus	0.0042	3.1775	0.9767	Total Length[cm]	3.75	39.25	27423
Clupea harengus - Female ♀	0.0036	3.2448	0.9603	Total Length[cm]	6.25	39.75	22081
Clupea harengus - Male ♂	0.0035	3.2585	0.9554	Total Length[cm]	6.25	39.75	22027
Clupea harengus - Quarter 1	0.0038	3.164	0.9858	Total Length[cm]	4.75	39.25	9854
Clupea harengus - January	0.0036	3.1839	0.9846	Total Length[cm]	4.75	34.75	4409
Clupea harengus - February	0.0029	3.253	0.9886	Total Length[cm]	7.25	39.75	5749
Clupea harengus - March	0.0046	3.0789	0.987	Total Length[cm]	9.25	39.25	631
Clupea harengus - Quarter 2	0.0043	3.1879	0.9832	Total Length[cm]	3.75	33.25	1761
Clupea harengus - April	0.0057	3.0391	0.9719	Total Length[cm]	5.25	33.25	156
Clupea harengus - May	0.0076	2.9252	0.9696	Total Length[cm]	3.75	28.75	91
Clupea harengus - June	0.0038	3.2383	0.9907	Total Length[cm]	4.75	31.25	1514
Clupea harengus - Quarter 3	0.0033	3.2912	0.9861	Total Length[cm]	4.75	34.25	11796
Clupea harengus - July	0.0032	3.3017	0.9869	Total Length[cm]	4.75	34.25	8655
Clupea harengus - August	0.0037	3.2582	0.9887	Total Length[cm]	6.75	32.75	2330
Clupea harengus - September	0.0027	3.338	0.9752	Total Length[cm]	4.75	31.75	811
Clupea harengus - Quarter 4	0.003	3.3231	0.9201	Total Length[cm]	6.25	33.75	4012
Conger conger	0.0001	3.7272	0.9806	Total Length[cm]	47.5	161.5	29
Crangon allmanni	0.0000016	3.3272115	0.8400151	Total Length[mm]	37.5	67.5	1102
Crangon allmanni - Female ♀	0.0000027	3.2114476	0.794664	Total Length[mm]	37.5	67.5	292
Crangon allmanni - Male ♂	0.0000192	2.6677417	0.8084237	Total Length[mm]	39.5	54.5	69
Crangon crangon	0.0000022	3.278553	0.9714365	Total Length[mm]	17.5	81.5	7917
Crangon crangon - Female ♀	0.0000021	3.2878593	0.9736858	Total Length[mm]	22.5	81.5	4000

Scientific Name	a	b	R^2	Length specification	Length class		N
					Min	Max	
Crangon crangon - Male ♂	0.0000049	3.0488185	0.9257512	Total Length[mm]	24.5	58.5	3108
Cyclopterus lumpus	0.063	2.9405	0.9799	Total Length[cm]	3.5	50.5	239
Dicentrarchus labrax	0.0258	2.7287	0.9462	Total Length[cm]	7.5	54.5	21
Echiichthys vipera	0.0115	2.9894	0.9019	Total Length[cm]	1.85	18.5	380
Engraulis encrasicolus	0.0041	3.147	0.9075	Total Length[cm]	3.75	21.25	616
Entelurus aequoreus	0.0003	2.7807	0.8178	Total Length[cm]	16.5	45.5	405
Eutrigla gurnardus	0.0112	2.8774	0.989	Total Length[cm]	1.95	38.5	722
Gadiculus argenteus	0.0154	2.7217	0.893	Total Length[cm]	5.75	15.25	102
Gadus morhua	0.0065	3.0982	0.9929	Total Length[cm]	3.5	120.5	16665
Gadus morhua - Female ♀	0.0061	3.1144	0.9935	Total Length[cm]	6.5	119.5	7370
Gadus morhua - Male ♂	0.0062	3.1113	0.9935	Total Length[cm]	8.5	118.5	7317
Gadus morhua - Quarter 1	0.005	3.1693	0.9941	Total Length[cm]	7.5	126.5	9355
Gadus morhua - January	0.0073	3.052	0.9945	Total Length[cm]	7.5	126.5	5346
Gadus morhua - February	0.006	3.111	0.9943	Total Length[cm]	10.5	119.5	3533
Gadus morhua - March	0.0053	3.1528	0.9888	Total Length[cm]	8.5	113.5	382
Gadus morhua - Quarter 2	0.0069	3.0855	0.9922	Total Length[cm]	3.5	119.5	2529
Gadus morhua - April	0.0053	3.1666	0.9949	Total Length[cm]	10.5	117.5	101
Gadus morhua - May	0.0067	3.0873	0.9923	Total Length[cm]	4.5	119.5	1386
Gadus morhua - June	0.0081	3.0489	0.992	Total Length[cm]	3.5	99.5	1042
Gadus morhua - Quarter 3	0.0072	3.0723	0.9892	Total Length[cm]	4.5	118.5	5714
Gadus morhua - July	0.0074	3.0693	0.9915	Total Length[cm]	4.5	118.5	2718
Gadus morhua - August	0.0075	3.0613	0.9876	Total Length[cm]	5.5	112.5	2351
Gadus morhua - September	0.0062	3.1121	0.9831	Total Length[cm]	9.5	111.5	645
Gadus morhua - Quarter 4	0.0076	3.0488	0.9954	Total Length[cm]	5.5	120.5	1737
Gadus morhua - October	0.008	3.0347	0.995	Total Length[cm]	5.5	120.5	1210
Gadus morhua - November	0.006	3.1119	0.9943	Total Length[cm]	7.5	101.5	445
Gadus morhua - December	0.0055	3.1707	0.9962	Total Length[cm]	10.5	114.5	300
Gaidropsarus vulgaris	0.0172	2.7135	0.9139	Total Length[cm]	6.5	41.5	49
Galeorhinus galeus	0.0049	2.9819	0.9794	Total Length[cm]	23.5	156.5	70
Galeorhinus galeus - Female ♀	0.0114	2.7697	0.9478	Total Length[cm]	23.5	156.5	24
Galeorhinus galeus - Male ♂	0.0043	3.0112	0.9917	Total Length[cm]	33.5	154.5	25
Gasterosteus aculeatus	0.0239	2.6111	0.7617	Total Length[cm]	3.75	8.5	122
Glyptocephalus cynoglossus	0.0032	3.1895	0.9747	Total Length[cm]	4.5	54.5	343
Helicolenus dactylopterus	0.0098	3.1616	0.9397	Total Length[cm]	5.25	46.5	127
Hippoglossoides platessoides	0.0034	3.2851	0.9938	Total Length[cm]	2.85	51.5	1452
Hippoglossus hippoglossus	0.0026	3.3322	0.9831	Total Length[cm]	25.5	167.5	120
Hyperoplus lanceolatus	0.0066	2.6967	0.9134	Total Length[cm]	6.5	34.5	782
Lampetra fluviatilis	0.0005	3.3567	0.9659	Total Length[cm]	9.25	38.75	178
Lepidorhombus whiffiagonis	0.0026	3.2967	0.9822	Total Length[cm]	15.5	52.5	247
Limanda limanda	0.0087	3.0226	0.9919	Total Length[cm]	1.35	33.5	743
Limanda limanda - Female ♀	0.0076	3.0584	0.9891	Total Length[cm]	4.5	33.5	90
Limanda limanda - Male ♂	0.0076	3.0587	0.9839	Total Length[cm]	5.5	25.5	92
Liparis liparis	0.0172	3.0359	0.9752	Total Length[cm]	3.5	16.5	134
Liparis montagui	0.0131	3.1228	0.9214	Total Length[cm]	6.5	15.5	29
Lithodes maja	0.00057	2.99662	0.9356	Carapace Length[mm]	18.5	132.5	220
Lithodes maja - Female ♀	0.00093	2.88717	0.90093	Carapace Length[mm]	34.5	130.5	123

Scientific Name	a	b	R^2	Length specification	Length class		N
					Min	Max	
Lithodes maja - Male ♂	0.00035	3.10704	0.97537	Carapace Length[mm]	18.5	122.5	65
Lophius budegassa	0.0203	2.9304	0.977	Total Length[cm]	13.5	81.5	31
Lophius piscatorius	0.0266	2.8568	0.9669	Total Length[cm]	7.5	120.5	1110
Lumpenus lampretaeformis	0.0063	2.4477	0.974	Total Length[cm]	5.35	35.5	76
Melanogrammus aeglefinus	0.005	3.1761	0.9869	Total Length[cm]	6.5	72.5	16770
Melanogrammus aeglefinus - Female ♀	0.0047	3.1937	0.9881	Total Length[cm]	10.5	72.5	8735
Melanogrammus aeglefinus - Male ♂	0.0053	3.1517	0.987	Total Length[cm]	10.5	69.5	8499
Melanogrammus aeglefinus - Quarter 1	0.0046	3.1932	0.9882	Total Length[cm]	7.5	72.5	11461
Melanogrammus aeglefinus - January	0.0047	3.1862	0.9887	Total Length[cm]	10.5	72.5	4907
Melanogrammus aeglefinus - February	0.0045	3.1955	0.9882	Total Length[cm]	7.5	69.5	6417
Melanogrammus aeglefinus - March	0.0034	3.3003	0.9816	Total Length[cm]	15.5	70.5	137
Melanogrammus aeglefinus - Quarter 2	0.0083	3.0284	0.9828	Total Length[cm]	7.5	70.5	161
Melanogrammus aeglefinus - April	0.0048	3.1779	0.9717	Total Length[cm]	17.5	70.5	55
Melanogrammus aeglefinus - May	0.0143	2.8509	0.9701	Total Length[cm]	14.5	58.5	61
Melanogrammus aeglefinus - June	0.0092	3.008	0.9874	Total Length[cm]	7.5	45.5	45
Melanogrammus aeglefinus - Quarter 3	0.0065	3.1083	0.9867	Total Length[cm]	6.5	66.5	5148
Melanogrammus aeglefinus - July	0.0063	3.1205	0.9872	Total Length[cm]	6.5	66.5	2439
Melanogrammus aeglefinus - August	0.0068	3.0956	0.9881	Total Length[cm]	6.5	54.5	2314
Melanogrammus aeglefinus - September	0.0065	3.0997	0.9596	Total Length[cm]	18.5	56.5	395
Merlangius merlangus	0.0061	3.0671	0.9846	Total Length[cm]	3.5	91.5	14880
Merlangius merlangus - Female ♀	0.0045	3.162	0.9863	Total Length[cm]	7.5	53.5	9435
Merlangius merlangus - Male ♂	0.0057	3.0863	0.9808	Total Length[cm]	7.5	47.5	9315
Merlangius merlangus - Quarter 1	0.0042	3.1775	0.9865	Total Length[cm]	6.5	53.5	8862
Merlangius merlangus - January	0.0049	3.1319	0.9881	Total Length[cm]	5.5	52.5	5199
Merlangius merlangus - February	0.0041	3.1868	0.9882	Total Length[cm]	6.5	53.5	4895
Merlangius merlangus - Quarter 2	0.0111	2.8596	0.9799	Total Length[cm]	3.5	36.5	412
Merlangius merlangus - Quarter 3	0.0085	2.9661	0.9857	Total Length[cm]	4.5	91.5	5473
Merlangius merlangus - July	0.008	2.9831	0.9912	Total Length[cm]	4.5	86.5	2480
Merlangius merlangus - August	0.0082	2.978	0.9885	Total Length[cm]	4.5	91.5	3669
Merlangius merlangus - September	0.0072	3.0222	0.9808	Total Length[cm]	7.5	36.5	600
Merlangius merlangus - Quarter 4	0.0084	2.9664	0.9657	Total Length[cm]	8.5	34.5	133
Merluccius merluccius	0.004	3.13	0.9944	Total Length[cm]	6.5	113.5	1682
Merluccius merluccius - Female ♀	0.0045	3.0912	0.9943	Total Length[cm]	12.5	93.5	284
Merluccius merluccius - Male ♂	0.0047	3.0774	0.9943	Total Length[cm]	7.5	70.5	374
Microchirus variegatus	0.011	2.9899	0.9409	Total Length[cm]	10.25	19.5	36
Micromesistius poutassou	0.0073	2.8926	0.8655	Total Length[cm]	10.5	55.5	17796
Micromesistius poutassou - Female ♀	0.0024	3.2288	0.8997	Total Length[cm]	14.5	42.5	3349
Micromesistius poutassou - Male ♂	0.0029	3.1651	0.8391	Total Length[cm]	14.5	43.5	3060
Microstomus kitt	0.0106	2.9904	0.9393	Total Length[cm]	3.25	45.5	2398
Microstomus kitt - Female ♀	0.0085	3.0626	0.9636	Total Length[cm]	13.5	40.5	889
Microstomus kitt - Male ♂	0.0107	2.9673	0.9604	Total Length[cm]	12.5	38.5	729
Molva molva	0.0031	3.1396	0.9841	Total Length[cm]	18.5	125.5	388
Mullus surmuletus	0.0149	2.9185	0.9695	Total Length[cm]	5.5	38.5	380
Mustelus asterias	0.0016	3.1753	0.9725	Total Length[cm]	42.5	100.5	178
Mustelus asterias - Female ♀	0.0011	3.2651	0.9679	Total Length[cm]	48.5	98.5	95
Mustelus asterias - Male ♂	0.0023	3.0919	0.9755	Total Length[cm]	42.5	100.5	75

Scientific Name	a	b	R^2	Length specification	Length class		N
					Min	Max	
Mustelus mustelus	0.0033	3.0231	0.9876	Total Length[cm]	25.5	113.5	37
Myoxocephalus scorpius	0.0114	3.1036	0.971	Total Length[cm]	2.5	33.5	938
Myxine glutinosa	0.0022	2.8357	0.943	Total Length[cm]	8.5	41.5	128
Nephrops norvegicus	0.00042	3.11965	0.92553	Carapace Length[mm]	19.5	67.5	1334
Nephrops norvegicus - Female ♀	0.00083	2.93399	0.91843	Carapace Length[mm]	22.5	62.5	201
Nephrops norvegicus - Male ♂	0.00053	3.0791	0.94342	Carapace Length[mm]	20.5	67.5	239
Osmerus eperlanus	0.0094	2.8535	0.8983	Total Length[cm]	5.25	25.5	264
Platichthys flesus	0.0098	3.0235	0.9849	Total Length[cm]	6.5	42.5	755
Pleuronectes platessa	0.0103	2.9745	0.9823	Total Length[cm]	3.5	60.5	2970
Pleuronectes platessa - Female ♀	0.0059	3.1539	0.9768	Total Length[cm]	9.5	58.5	9656
Pleuronectes platessa - Male ♂	0.0077	3.0623	0.9713	Total Length[cm]	9.5	53.5	5417
Pollachius pollachius	0.0107	2.966	0.9756	Total Length[cm]	8.5	92.5	183
Pollachius virens	0.0055	3.1071	0.9752	Total Length[cm]	10.5	116.5	4677
Pollachius virens - Female ♀	0.0043	3.1692	0.9802	Total Length[cm]	23.5	116.5	2618
Pollachius virens - Male ♂	0.0049	3.1328	0.9829	Total Length[cm]	14.5	115.5	3156
Pollachius virens - Quarter 1	0.004	3.1853	0.9778	Total Length[cm]	10.5	116.5	3809
Pollachius virens - January	0.0032	3.2409	0.9765	Total Length[cm]	16.5	115.5	1628
Pollachius virens - February	0.0044	3.1573	0.9782	Total Length[cm]	10.5	116.5	2071
Pollachius virens - March	0.0065	3.0596	0.9865	Total Length[cm]	28.5	108.5	109
Pollachius virens - Quarter 2	0.0164	2.8586	0.9821	Total Length[cm]	21.5	106.5	215
Pollachius virens - May	0.0204	2.8079	0.9819	Total Length[cm]	28.5	106.5	187
Pollachius virens - Quarter 3	0.0103	2.9632	0.9813	Total Length[cm]	15.5	111.5	642
Pollachius virens - July	0.0107	2.9549	0.9817	Total Length[cm]	16.5	111.5	508
Pollachius virens - August	0.0105	2.9504	0.9801	Total Length[cm]	15.5	74.5	132
Pollachius virens - Quarter 4	0.0077	3.0455	0.9931	Total Length[cm]	16.5	113.5	1055
Pollachius virens - October	0.0106	2.9637	0.9914	Total Length[cm]	36.5	91.5	551
Pollachius virens - November	0.0054	3.1297	0.9922	Total Length[cm]	32.5	113.5	498
Pomatoschistus minutus	0.01	2.8976	0.9282	Total Length[cm]	2.5	9.5	615
Psetta maxima	0.0128	3.1267	0.9833	Total Length[cm]	4.5	72.5	944
Psetta maxima - Female ♀	0.0112	3.1702	0.966	Total Length[cm]	22.5	63.5	184
Psetta maxima - Male ♂	0.0138	3.0988	0.9518	Total Length[cm]	20.5	56.5	221
Raja batis	0.0074	2.9532	0.9842	Total Length[cm]	9.5	210.5	37
Raja clavata	0.0081	2.976	0.984	Total Length[cm]	9.5	95.5	73
Raja montagui	0.0029	3.2006	0.9903	Total Length[cm]	13.5	83.5	57
Raja naevus	0.0025	3.216	0.9878	Total Length[cm]	11.5	68.5	390
Raja naevus - Female ♀	0.0023	3.2423	0.9901	Total Length[cm]	12.5	67.5	225
Raja naevus - Male ♂	0.0032	3.1435	0.9838	Total Length[cm]	11.5	68.5	148
Raja radiata	0.0069	3.0343	0.987	Total Length[cm]	7.5	60.5	1156
Raja radiata - Female ♀	0.0073	3.0145	0.9871	Total Length[cm]	7.5	60.5	584
Raja radiata - Male ♂	0.0063	3.0574	0.9873	Total Length[cm]	8.5	53.5	528
Rhinonemus cimbrius	0.0032	3.1436	0.9492	Total Length[cm]	4.65	28.5	448
Sardina pilchardus	0.0034	3.2665	0.9764	Total Length[cm]	6.25	28.75	365
Scomber scombrus	0.004	3.1996	0.9477	Total Length[cm]	7.5	45.5	8600
Scomber scombrus - Female ♀	0.002	3.4011	0.9588	Total Length[cm]	15.5	47.5	9832
Scomber scombrus - Male ♂	0.002	3.4036	0.9535	Total Length[cm]	15.5	46.5	9328
Scomber scombrus - Quarter 1	0.0027	3.3022	0.9809	Total Length[cm]	10.5	43.5	3329

Scientific Name	a	b	R^2	Length specification	Length class		N
					Min	Max	
Scomber scombrus - January	0.0022	3.3809	0.987	Total Length[cm]	15.5	43.5	807
Scomber scombrus - February	0.0026	3.3148	0.981	Total Length[cm]	10.5	41.5	1223
Scomber scombrus - March	0.0017	3.4118	0.9825	Total Length[cm]	15.5	43.5	1209
Scomber scombrus - Quarter 2	0.0024	3.308	0.9459	Total Length[cm]	16.5	45.5	1828
Scomber scombrus - April	0.0024	3.2954	0.9522	Total Length[cm]	16.5	42.5	1696
Scomber scombrus - May	0.0028	3.2932	0.9344	Total Length[cm]	26.5	43.5	118
Scomber scombrus - Quarter 3	0.0043	3.2101	0.9614	Total Length[cm]	7.5	45.5	3509
Scomber scombrus - July	0.0043	3.2122	0.9569	Total Length[cm]	7.5	43.5	1781
Scomber scombrus - August	0.0046	3.1875	0.9647	Total Length[cm]	11.5	45.5	1478
Scomber scombrus - September	0.0029	3.335	0.9703	Total Length[cm]	13.5	40.5	250
Scomber scombrus - Quarter 4	0.0015	3.4916	0.9809	Total Length[cm]	16.5	45.5	1510
Scomber scombrus - October	0.003	3.2714	0.9832	Total Length[cm]	16.5	39.5	286
Scomber scombrus - November	0.0027	3.3083	0.9219	Total Length[cm]	20.5	35.5	498
Scomber scombrus - December	0.001	3.5993	0.9862	Total Length[cm]	16.5	45.5	724
Scophthalmus rhombus	0.0103	3.0937	0.9825	Total Length[cm]	4.5	56.5	528
Scyliorhinus canicula	0.0021	3.1276	0.9753	Total Length[cm]	16.5	79.5	683
Scyliorhinus canicula - Female ♀	0.0017	3.1946	0.9785	Total Length[cm]	16.5	79.5	316
Scyliorhinus canicula - Male ♂	0.0033	3.0097	0.9715	Total Length[cm]	19.5	78.5	277
Sebastes marinus	0.0065	3.2124	0.9745	Total Length[cm]	19.5	66.5	1073
Sebastes mentella	0.0127	2.9773	0.9609	Total Length[cm]	16.5	77.5	20030
Sebastes viviparus	0.0127	3.0797	0.956	Total Length[cm]	10.5	31.5	67
Solea vulgaris	0.0034	3.2974	0.983	Total Length[cm]	5.5	42.5	1792
Solea vulgaris - Female ♀	0.0032	3.3307	0.9573	Total Length[cm]	13.5	44.5	2819
Solea vulgaris - Male ♂	0.0047	3.1882	0.9352	Total Length[cm]	12.5	42.5	893
Sprattus sprattus	0.0052	3.1474	0.9358	Total Length[cm]	3.75	15.75	11479
Sprattus sprattus - Female ♀	0.0078	2.9851	0.9204	Total Length[cm]	5.75	16.25	7177
Sprattus sprattus - Male ♂	0.0069	3.0305	0.9135	Total Length[cm]	5.75	15.25	5750
Sprattus sprattus - Quarter 1	0.0038	3.2418	0.9584	Total Length[cm]	4.75	15.75	2663
Sprattus sprattus - January	0.0039	3.2324	0.9558	Total Length[cm]	4.75	14.75	1260
Sprattus sprattus - February	0.0033	3.2926	0.9614	Total Length[cm]	5.75	15.75	1254
Sprattus sprattus - March	0.0072	2.9707	0.97	Total Length[cm]	6.75	15.75	149
Sprattus sprattus - Quarter 2	0.0075	3.0174	0.9181	Total Length[cm]	5.75	14.75	1135
Sprattus sprattus - April	0.01	2.8771	0.937	Total Length[cm]	5.75	14.75	122
Sprattus sprattus - May	0.0049	3.2161	0.9055	Total Length[cm]	5.75	14.25	261
Sprattus sprattus - June	0.008	2.9889	0.9244	Total Length[cm]	6.75	14.75	752
Sprattus sprattus - Quarter 3	0.0073	3.0207	0.9344	Total Length[cm]	3.75	15.75	7656
Sprattus sprattus - July	0.0084	2.9566	0.9241	Total Length[cm]	3.75	15.75	5967
Sprattus sprattus - August	0.0055	3.1562	0.9619	Total Length[cm]	4.75	14.75	1341
Sprattus sprattus - September	0.0046	3.2214	0.946	Total Length[cm]	4.75	15.25	348
Sprattus sprattus - Quarter 4	0.007	3.0104	0.8812	Total Length[cm]	6.75	14.25	25
Squalus acanthias	0.0023	3.1289	0.9821	Total Length[cm]	24.5	115.5	273
Squalus acanthias - Female ♀	0.0015	3.2491	0.9916	Total Length[cm]	24.5	115.5	108
Squalus acanthias - Male ♂	0.0041	2.984	0.9824	Total Length[cm]	25.5	97.5	127
Syngnathus rostellatus	0.00015	3.40846	0.91674	Total Length[cm]	5.25	18.5	184
Trachinus draco	0.0061	3.0482	0.9853	Total Length[cm]	10.5	36.5	18
Trachurus trachurus	0.0112	2.8824	0.9787	Total Length[cm]	2.5	41.5	3815

Scientific Name	a	b	R^2	Length specification	Length class		N
					Min	Max	
Trachurus trachurus - Female ♀	0.0177	2.7566	0.8829	Total Length[cm]	15.5	42.5	5093
Trachurus trachurus - Male ♂	0.0166	2.7736	0.8948	Total Length[cm]	12.5	45.5	4711
Trachurus trachurus - Quarter 1	0.0072	3.0172	0.9774	Total Length[cm]	6.5	46.5	3388
Trachurus trachurus - January	0.0073	3.0281	0.9906	Total Length[cm]	6.5	38.5	330
Trachurus trachurus - February	0.0065	3.0504	0.9714	Total Length[cm]	10.5	46.5	2289
Trachurus trachurus - March	0.0073	2.9946	0.9334	Total Length[cm]	15.5	40.5	769
Trachurus trachurus - Quarter 2	0.0068	3.0168	0.9142	Total Length[cm]	12.5	40.5	2030
Trachurus trachurus - April	0.0082	2.9564	0.9201	Total Length[cm]	12.5	40.5	1981
Trachurus trachurus - May	0.0099	2.9721	0.9182	Total Length[cm]	21.5	39.5	37
Trachurus trachurus - June	0.0021	3.4271	0.9748	Total Length[cm]	21.5	39.5	14
Trachurus trachurus - Quarter 3	0.0125	2.9076	0.9878	Total Length[cm]	4.5	41.5	886
Trachurus trachurus - July	0.0165	2.8229	0.9616	Total Length[cm]	4.5	40.5	491
Trachurus trachurus - August	0.0118	2.9306	0.9925	Total Length[cm]	4.5	41.5	350
Trachurus trachurus - September	0.0112	2.9286	0.9913	Total Length[cm]	4.5	39.5	56
Trachurus trachurus - Quarter 4	0.0079	3.0199	0.9391	Total Length[cm]	7.5	40.5	4711
Trachurus trachurus - October	0.0067	3.0818	0.9385	Total Length[cm]	14.5	40.5	3447
Trachurus trachurus - November	0.0137	2.8256	0.948	Total Length[cm]	7.5	36.5	928
Trachurus trachurus - December	0.0086	2.9778	0.9732	Total Length[cm]	7.5	37.5	336
Trigla lucerna	0.0151	2.8814	0.9855	Total Length[cm]	4.5	50.5	505
Trisopterus esmarki	0.0045	3.1484	0.9657	Total Length[cm]	5.5	22.5	1051
Trisopterus esmarki - Female ♀	0.0039	3.2015	0.9694	Total Length[cm]	9.5	22.5	672
Trisopterus esmarki - Male ♂	0.0069	2.9786	0.956	Total Length[cm]	8.5	21.5	550
Trisopterus esmarki - Quarter 1	0.0047	3.1254	0.9644	Total Length[cm]	7.5	22.5	775
Trisopterus esmarki - January	0.0057	3.0558	0.9585	Total Length[cm]	8.5	22.5	423
Trisopterus esmarki - February	0.0039	3.1935	0.9693	Total Length[cm]	7.5	22.5	346
Trisopterus esmarki - Quarter 3	0.0048	3.1515	0.9751	Total Length[cm]	5.5	21.5	269
Trisopterus esmarki - July	0.0043	3.1932	0.9684	Total Length[cm]	5.5	21.5	136
Trisopterus esmarki - August	0.005	3.1365	0.977	Total Length[cm]	5.5	20.5	130
Trisopterus luscus	0.0102	3.0277	0.9728	Total Length[cm]	4.5	35.5	256
Trisopterus minutus	0.004	3.275	0.965	Total Length[cm]	8.5	24.5	697
Trisopterus minutus - Quarter 1	0.0032	3.3595	0.981	Total Length[cm]	8.5	24.5	385
Trisopterus minutus - January	0.0029	3.3963	0.9693	Total Length[cm]	9.25	23.75	111
Trisopterus minutus - February	0.0031	3.3628	0.9861	Total Length[cm]	8.5	24.5	260
Trisopterus minutus - Quarter 2	0.0082	3.0006	0.9432	Total Length[cm]	8.5	24.5	119
Trisopterus minutus - Quarter 3	0.0072	3.0566	0.9309	Total Length[cm]	8.5	21.5	166
Zeus faber	0.0134	3.0526	0.9832	Total Length[cm]	9.5	52.5	184
Zoarces viviparus	0.0047	3.0241	0.9522	Total Length[cm]	4.75	26.5	321

Agonus cataphractus

Geographical distribution of data used for calculating the length-weight relationship

Agonus cataphractus

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **= 0.0104**

b **= 2.8669**

data collected

time period : 2001 - 2011
data source : research vessel

numbers of data:

Quarter			
1	2	3	4
138	**67**	**210**	**43**

Month											
1	2	3	4	5	6	7	8	9	10	11	12
130	**8**	-	**11**	**56**	-	**32**	**84**	**94**	**28**	**5**	**10**

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**458**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**41**	**417**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea									NAFO								
1	2	3	4	5	6	7	8	9	1A	1B	1C	1D	1E	1F	2G	2H	2J
15	**22**	**25**	**9**	-	**345**	**42**	-	-	-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below, 1/2 cm below, mm below**

min length 2.75 *[cm]*
max length 18.5 *[cm]*

male	-
female	-
undefined	458
total numbers of data	458

Alosa fallax

Geographical distribution of data used for calculating the length-weight relationship

Alosa fallax

Quarter: 1 - 4

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* = 0.0059**

***b* = 3.0778**

data collected

time period : 1975 - 2007

data source : research vessel

numbers of data:

Quarter

1	2	3	4
178	**32**	**192**	**89**

Month

1	2	3	4	5	6	7	8	9	10	11	12
138	**38**	**2**	**13**	**13**	**6**	**24**	**129**	**39**	**21**	**36**	**32**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**489**	-	-	**2**	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**5**	**480**	**4**	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
2	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
3	**4**	**2**	-	**2**	**474**	**2**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 5.5 *[cm]*

max length 53.5 *[cm]*

male	-
female	2
undefined	489
total numbers of data	491

Ammodytes marinus

Geographical distribution of data used for calculating the length-weight relationship

Ammodytes marinus

Quarter: **2 ; 3**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.001**

b **=** **3.4395**

data collected

time period : **1995 - 2009**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
-	**61**	**108**	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	**1**	**60**	-	**108**	-	-	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**169**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	-	**169**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
-	**79**	-	**1**	-	**66**	**23**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **mm below, 1/2 cm below**

min length 6.35 *[cm]*

max length 19.25 *[cm]*

male	-
female	-
undefined	169
total numbers of data	169

Ammodytes tobianus

Geographical distribution of data used for calculating the length-weight relationship

Ammodytes tobianus **Quarter: 1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* = 0.0063**

***b* = 2.6927**

data collected

time period : 1958 - 2003

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
2	**14**	**25**	**9**

Month											
1	2	3	4	5	6	7	8	9	10	11	12
-	-	**2**	**3**	**2**	**9**	**10**	**8**	**7**	**6**	**3**	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**50**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	-	**50**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea								
1	2	3	4	5	6	7	8	9
-	-	-	-	-	**50**	-	-	-

NAFO								
1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **1/2 cm below, cm below**

min length 7.75 *[cm]*

max length 24.25 *[cm]*

male	-
female	-
undefined	50
total numbers of data	50

Anarhichas lupus

Geographical distribution of data used for calculating the length-weight relationship

Anarhichas lupus

Quarter: 1 - 4

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* = 0.0078**

***b* = 3.0468**

data collected

time period : 1959 - 2007

data source : research vessel

numbers of data:

Quarter

1	2	3	4
182	**238**	**247**	**8**

Month

1	2	3	4	5	6	7	8	9	10	11	12
22	**126**	**34**	-	**85**	**153**	**211**	**25**	**11**	-	**8**	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	**3**	**672**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	**3**	-	-	-	**383**	**289**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
238	**103**	**127**	**61**	-	**7**	**110**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 4.5 *[cm]*

max length 105.5 *[cm]*

male	11
female	22
undefined	642
total numbers of data	675

Anguilla anguilla

Geographic distribution of data used for calculating the length-weight relationship

Anguilla anguilla

Quarter: 1 - 4

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* = 0.0008**

***b* = 3.1851**

data collected

time period : 1955 - 2004

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
12	**223**	**340**	**34**

Month											
1	2	3	4	5	6	7	8	9	10	11	12
4	**5**	**3**	**28**	**86**	**109**	**146**	**107**	**87**	**19**	**12**	**3**

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**609**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	-	**608**	**1**	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea								
1	2	3	4	5	6	7	8	9
-	-	-	-	-	**609**	-	-	-

NAFO								
1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 6.5 *[cm]*

max length 80.5 *[cm]*

male	-
female	-
undefined	609
total numbers of data	609

Argentina silus

Geographical distribution of data used for calculating the length-weight relationship

Argentina silus **Quarter: 1 - 3**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* = 0.0025**

***b* = 3.3006**

data collected

time period : 1983 - 2007

data source : research vessel

numbers of data:

Quarter

1	2	3	4
251	**227**	**14**	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
43	**197**	**11**	**217**	**5**	**5**	**14**	-	-	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**264**	-	**216**	**6**	**6**	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**260**	**4**	-	-	-	**216**	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
1	-	**5**	-	**5**	-	-	**1**	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
85	**1**	**11**	-	-	-	**3**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 6.5 *[cm]*

max length 46.5 *[cm]*

male -

female -

undefined 492

total numbers of data 492

Argentina sphyraena

Geographical distribution of data used for calculating the length-weight relationship

Argentina sphyraena

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **= 0.0021**

b **= 3.346**

data collected

time period : 2000 - 2011

data source : research vessel, commercial trawler

numbers of data:

Quarter

1	2	3	4
95	**137**	**515**	**1**

Month

1	2	3	4	5	6	7	8	9	10	11	12
30	**61**	**4**	**135**	-	**2**	**288**	**227**	-	-	-	**1**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**609**	**134**	**3**	**1**	**1**	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**588**	**21**	-	-	**134**	**3**	-	-	-	**1**	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	**1**	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
450	**12**	**138**	-	-	**9**	-	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below, mm below**

min length 5.5 *[cm]*

max length 45.5 *[cm]*

male -

female -

undefined 748

total numbers of data 748

Arnoglossus laterna

Geographical distribution of data used for calculating the length-weight relationship

Arnoglossus laterna

Quarter: 1 - 4

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* = 0.0063**

***b* = 3.084**

data collected

time period : 2000 - 2011
data source : research vessel

numbers of data:

Quarter

1	2	3	4
190	**145**	**1160**	**23**

Month

1	2	3	4	5	6	7	8	9	10	11	12
170	**20**	-	**10**	**133**	**2**	**422**	**722**	**16**	**3**	**16**	**4**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**1518**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**10**	**1508**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
8	**33**	**2**	-	**1**	**1415**	**59**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below, mm below**

min length 1.65 *[cm]*
max length 16.5 *[cm]*

male	-
female	-
undefined	1518
total numbers of data	1518

Aspitrigla cuculus

Geographical distribution of data used for calculating the length-weight relationship

Aspitrigla cuculus — *Quarter:* 1 - 4

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **= 0.0061**

b **= 0.1054**

data collected

time period : 1994 - 2007

data source : research vessel

numbers of data:

Quarter

1	2	3	4
76	**25**	**26**	**3**

Month

1	2	3	4	5	6	7	8	9	10	11	12
13	**50**	**13**	**13**	**5**	**7**	**23**	**3**	-	-	**2**	**1**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**106**	-	-	**17**	**7**	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**73**	**21**	**12**	-	-	-	-	-	**1**	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
4	**2**	**10**	-	**4**	**1**	-	**2**	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
39	-	**39**	**7**	**19**	**1**	-	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 12.5 *[cm]*

max length 36.5 *[cm]*

male -

female -

undefined 130

total numbers of data 130

Belone belone

Geographical distribution of data used for calculating the length-weight relationship

Belone belone

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0011**

b **=** **3.0368**

data collected

time period : **1970 - 2007**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
5	**12**	**40**	**3**

Month

1	2	3	4	5	6	7	8	9	10	11	12
2	**2**	**1**	**4**	**2**	**6**	**16**	**22**	**2**	-	**3**	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**54**	-	-	**2**	**4**	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**3**	**51**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	**2**	-	**3**	**1**	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
1	-	**1**	**1**	-	**49**	**1**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 8.5 *[cm]*

max length 82.5 *[cm]*

male -

female -

undefined 60

total numbers of data 60

Brosme brosme

Geographical distribution of data used for calculating the length-weight relationship

Brosme brosme

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0036**

b **=** **3.2609**

data collected

time period : **1975 - 2007**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
76	**8**	**30**	**7**

Month

1	2	3	4	5	6	7	8	9	10	11	12
13	**50**	**13**	-	**1**	**7**	**29**	**1**	-	-	**7**	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**116**	-	**5**	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**115**	**1**	-	-	-	**3**	**2**	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
112	-	**2**	-	-	-	**2**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 23.5 *[cm]*

max length 80.5 *[cm]*

male	-
female	2
undefined	119
total numbers of data	121

Buglossidium luteum

Geographical distribution of data used for calculating the length-weight relationship

Buglossidium luteum

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **= 0.0079**

b **= 3.1092**

data collected

time period : 2000 - 2011
data source : research vessel

numbers of data:

Quarter

1	2	3	4
433	**114**	**2513**	**22**

Month

1	2	3	4	5	6	7	8	9	10	11	12
415	**17**	**1**	**17**	**94**	**3**	**1353**	**1151**	**9**	**1**	**14**	**7**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**3082**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**2**	**3080**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
-	**25**	**1**	-	-	**2783**	**273**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below, mm below**

min length 1.25 *[cm]*
max length 13.5 *[cm]*

male -
female -
undefined 3082

total numbers of data 3082

Callionymus lyra

Geographical distribution of data used for calculating the length-weight relationship

Callionymus lyra

Quarter: 1 - 4

$Tw_{[g]} = a * L_{[cm]}^{b}$

a = 0.0204

b = 2.5784

data collected

time period : 1994 - 2009

data source : research vessel

numbers of data:

Quarter

1	2	3	4
287	146	716	85

Month

1	2	3	4	5	6	7	8	9	10	11	12
200	77	10	20	95	31	219	437	60	13	50	22

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	1224	-	-	9	1	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	132	1089	3	-	-	-	-	-	1	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
2	-	6	-	1	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
40	56	94	103	2	839	90	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **mm below, cm below**

min length 3.4 *[cm]*

max length 29.5 *[cm]*

male	30
female	48
undefined	1156
total numbers of data	1234

Callionymus maculatus

Geographical distribution of data used for calculating the length-weight relationship

Callionymus maculatus

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0282**

b **=** **2.3129**

data collected

time period : **1994 - 2007**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
144	**12**	**34**	**6**

Month

1	2	3	4	5	6	7	8	9	10	11	12
58	**74**	**12**	**2**	**9**	**1**	**11**	**19**	**4**	-	**4**	**2**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**190**	-	-	**6**	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**129**	**61**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	**6**	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
72	**13**	**62**	**4**	-	**33**	**6**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	4.5 *[cm]*
max length	16.5 *[cm]*

male	2
female	1
undefined	193
total numbers of data	196

Callionymus reticulatus

Geographical distribution of data used for calculating the length-weight relationship

Callionymus reticulatus

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0159**

b **=** **2.5712**

data collected

time period : **2002 - 2011**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
85	**32**	**52**	**17**

Month

1	2	3	4	5	6	7	8	9	10	11	12
76	**9**	-	**3**	**29**	-	**12**	**29**	**11**	**1**	**7**	**9**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**186**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**6**	**180**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
6	**8**	-	-	-	**156**	**16**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below, 1/2 cm below, mm below**

min length 4.25 *[cm]*

max length 18.5 *[cm]*

male	-
female	-
undefined	186
total numbers of data	186

Cancer pagurus

Geographical distribution of data used for calculating the length-weight relationship

Cancer pagurus

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[mm]}^{\,b}$$

a **= 0.00025**

b **= 2.90285**

data collected

time period : 1990 - 2009

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
39	**101**	**262**	**17**

Month											
1	2	3	4	5	6	7	8	9	10	11	12
30	**9**	-	-	**90**	**11**	**58**	**196**	**8**	-	**13**	**4**

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**419**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**33**	**386**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea									NAFO								
1	2	3	4	5	6	7	8	9	1A	1B	1C	1D	1E	1F	2G	2H	2J
7	**11**	**26**	**4**	**1**	**315**	**55**	-	-	-	-	-	-	-	-	-	-	-

Method of Measurement

- **Carapace width**
- **mm below**

min length	16.5 *[mm]*	**male**	218
max length	222.5 *[mm]*	**female**	167
		undefined	34
		total numbers of data	419

Cancer pagurus ♀

Geographical distribution of data used for calculating the length-weight relationship

Cancer pagurus ♀

(female)

Quarter: 1 - 4

$$Tw_{[g]} = a * L_{[mm]}^{\,b}$$

***a* = 0.00028**

***b* = 2.87693**

data collected

time period : 1992 - 2009

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
18	**33**	**112**	**4**

Month											
1	2	3	4	5	6	7	8	9	10	11	12
15	**3**	-	-	**27**	**6**	**23**	**85**	**4**	-	**1**	**3**

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**167**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**19**	**148**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea									NAFO								
1	2	3	4	5	6	7	8	9	1A	1B	1C	1D	1E	1F	2G	2H	2J
2	**4**	**17**	**3**	-	**116**	**25**	-	-	-	-	-	-	-	-	-	-	-

Method of Measurement

- **Carapace width**
- **mm below**

min length	16.5 *[mm]*	**male**	-
max length	222.5 *[mm]*	**female**	167
		undefined	-
		total numbers of data	167

Cancer pagurus ♂

Geographical distribution of data used for calculating the length-weight relationship

Cancer pagurus ♂

Quarter: 1 - 4

(male)

$$Tw_{[g]} = a * L_{[mm]}{}^{b}$$

***a* = 0.00019**

***b* = 2.96327**

data collected

time period : 1990 - 2009

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
18	**63**	**125**	**12**

Month											
1	2	3	4	5	6	7	8	9	10	11	12
13	**5**	-	-	**58**	**5**	**32**	**90**	**3**	-	**11**	**1**

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**218**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**9**	**209**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea									NAFO								
1	2	3	4	5	6	7	8	9	1A	1B	1C	1D	1E	1F	2G	2H	2J
3	**5**	**6**	-	-	**179**	**25**	-	-	-	-	-	-	-	-	-	-	-

Method of Measurement

- **Carapace width**
- **mm below**

min length 45.5 *[mm]*

max length 208.5 *[mm]*

male	218
female	-
undefined	-
total numbers of data	218

Capros aper

Geographical distribution of data used for calculating the length-weight relationship

Capros aper

Quarter: **2**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0346**

b **=** **2.7595**

data collected

time period : **2001 - 2001**

data source : **research vessel**

numbers of data:

Quarter			
1	2	3	4
-	**242**	-	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	**242**	-	-	-	-	-	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	-	-	-	**242**	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	**242**	-	-	-	-	-	-	-	-	-

Roundfisharea								
1	2	3	4	5	6	7	8	9
-	-	-	-	-	-	-	-	-

NAFO								
1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 8.5 *[cm]*

max length 16.5 *[cm]*

male	-
female	-
undefined	242
total numbers of data	242

Ciliata mustela

Geographical distribution of data used for calculating the length-weight relationship

Ciliata mustela

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0052**

b **=** **3.169**

data collected

time period : **1994 - 2007**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
160	**12**	**75**	**60**

Month

1	2	3	4	5	6	7	8	9	10	11	12
139	**21**	-	**5**	**7**	-	**4**	**2**	**69**	**23**	**9**	**28**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**307**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	-	**307**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
-	-	-	-	-	**307**	-	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 7.5 *[cm]*

max length 23.5 *[cm]*

male -

female -

undefined 307

total numbers of data 307

Clupea harengus

Geographic distribution of data used for calculating the length-weight relationship

Clupea harengus

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0042**

b **=** **3.1775**

data collected

time period : **1996 - 2008**

data source : **research vessel, commercial trawler**

numbers of data:

Quarter

1	2	3	4
9854	**1761**	**11796**	**4012**

Month

1	2	3	4	5	6	7	8	9	10	11	12
4409	**4814**	**631**	**156**	**91**	**1514**	**8655**	**2330**	**811**	**13**	**18**	**3981**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	**631**	-	**23088**	-	-	**3704**	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	**631**	-	-	-	-	-	**7878**	**14661**	**549**	-	-	-	-	-	-	-	**3704**	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
4153	**2196**	**3432**	**1166**	**562**	**7203**	**4376**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **1/2 cm below**

min length	3.75 *[cm]*
max length	39.25 *[cm]*

male	10219
female	10292
undefined	6911
total numbers of data	27423

Clupea harengus ♀

Geographical distribution of data used for calculating the length-weight relationship

Clupea harengus ♀ **Quarter: 1 - 4**

(female)

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* = 0.0036**

***b* = 3.2448**

data collected

time period : 1994 - 2009

data source : research vessel

numbers of data:

Quarter

1	2	3	4
7271	**2306**	**8969**	**3535**

Month

1	2	3	4	5	6	7	8	9	10	11	12
2718	**3345**	**1208**	**640**	**509**	**1157**	**5755**	**2240**	**974**	**852**	**734**	**1949**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	**1390**	**2387**	**15901**	-	**617**	**1786**	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	**1390**	-	-	-	**84**	**2303**	**7519**	**8240**	**142**	-	-	**617**	-	-	-	-	**1753**	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	**33**	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
5105	**1620**	**2978**	**1261**	**164**	**2734**	**1953**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **1/2 cm below**

min length	6.25 *[cm]*
max length	39.75 *[cm]*

male	-
female	22081
undefined	-
total numbers of data	22081

Clupea harengus ♂

Geographical distribution of data used for calculating the length-weight relationship

Clupea harengus ♂ **Quarter: 1 - 4**

(male)

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* = 0.0035**

***b* = 3.2585**

data collected

time period : 1994 - 2009

data source : research vessel

numbers of data:

Quarter

1	2	3	4
7115	**2508**	**9163**	**3241**

Month

1	2	3	4	5	6	7	8	9	10	11	12
2643	**3292**	**1180**	**586**	**603**	**1319**	**6081**	**2098**	**984**	**771**	**675**	**1795**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	**1183**	**2230**	**16215**	-	**737**	**1662**	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	**1183**	-	-	-	**82**	**2148**	**7621**	**8398**	**196**	-	-	**737**	-	-	-	-	**1640**	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	**22**	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
5006	**1676**	**3247**	**1359**	**218**	**2564**	**2048**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **1/2 cm below**

min length 6.25 *[cm]*

max length 39.75 *[cm]*

male	22027
female	-
undefined	-
total numbers of data	22027

Clupea harengus *Quarter 1*

Geographical distribution of data used for calculating the length-weight relationship

Clupea harengus

Quarter: **1**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0038**

b **=** **3.164**

data collected

time period : **1996 - 2008**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
9854	-	-	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
4409	**4814**	**631**	-	-	-	-	-	-	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	**608**	-	**9246**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	**608**	-	-	-	-	-	**5314**	**3931**	**1**	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
2939	**1819**	**2099**	-	-	**1475**	**914**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **1/2 cm below**

min length	4.75 *[cm]*	**male**	4295
max length	39.25 *[cm]*	**female**	4388
		undefined	1171
		total numbers of data	9854

Clupea harengus *January*

Geographical distribution of data used for calculating the length-weight relationship

Clupea harengus — *January*

$Tw_{[g]} = a * L_{[cm]}^{b}$

a = 0.0036

b = 3.1839

data collected

time period : 1996 - 2008

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
4409	-	-	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
4409	-	-	-	-	-	-	-	-	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	4409	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	2300	2109	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea								
1	2	3	4	5	6	7	8	9
1755	409	444	-	-	1070	731	-	-

NAFO								
1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **1/2 cm below**

min length 4.75 *[cm]*

max length 34.75 *[cm]*

male	1871
female	1913
undefined	625
total numbers of data	4409

Clupea harengus *February*

Geographical distribution of data used for calculating the length-weight relationship

Clupea harengus — *February*

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* =** **0.0029**

***b* =** **3.253**

data collected

time period : 1996 - 2008

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
5749	-	-	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
-	**5749**	-	-	-	-	-	-	-	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	**730**	-	**5019**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	**730**	-	-	-	-	-	**3219**	**1799**	**1**	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea									NAFO								
1	2	3	4	5	6	7	8	9	1A	1B	1C	1D	1E	1F	2G	2H	2J
1389	**1410**	**1655**	-	-	**382**	**183**	-	-	-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **1/2 cm below**

min length	7.25 *[cm]*
max length	39.75 *[cm]*

male	2345
female	2358
undefined	1046
total numbers of data	5749

Clupea harengus *March*

Geographical distribution of data used for calculating the length-weight relationship

Clupea harengus — *March*

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0046**

b **=** **3.0789**

data collected

time period : **1997 - 2000**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
631	-	-	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
-	-	**631**	-	-	-	-	-	-	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	**608**	-	**23**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	**608**	-	-	-	-	-	-	**23**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
-	-	-	-	-	**23**	-	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **1/2 cm below**

min length	9.25 *[cm]*
max length	39.25 *[cm]*

male	256
female	330
undefined	45
total numbers of data	631

Clupea harengus *Quarter 2*

Geographical distribution of data used for calculating the length-weight relationship

Clupea harengus

Quarter: **2**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **= 0.0043**

b **= 0.1879**

data collected

time period : 1996 - 2006

data source : research vessel

numbers of data:

Quarter

1	2	3	4
-	**1761**	-	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	**156**	**91**	**1514**	-	-	-	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	**23**	-	**1738**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	**23**	-	-	-	-	-	**750**	**988**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
381	**1**	**369**	**1**	-	**545**	**441**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **1/2 cm below**

min length	3.75 *[cm]*
max length	33.25 *[cm]*

male	723
female	622
undefined	416
total numbers of data	1761

Clupea harengus *April*

Geographical distribution of data used for calculating the length-weight relationship

Clupea harengus *April*

$Tw_{[g]} = a * L_{[cm]}^{b}$

a **= 0.0057**

b **= 0.3391**

data collected

time period : 1996 - 2004

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
-	**156**	-	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	**156**	-	-	-	-	-	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	**23**	-	**133**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	**23**	-	-	-	-	-	-	**133**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea								
1	2	3	4	5	6	7	8	9
-	-	-	-	-	**133**	-	-	-

NAFO								
1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **1/2 cm below**

min length	5.25 *[cm]*
max length	33.25 *[cm]*

male	66
female	57
undefined	33
total numbers of data	156

Clupea harengus *May*

Geographical distribution of data used for calculating the length-weight relationship

Clupea harengus — *May*

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0076**

b **=** **2.9252**

data collected

time period : 1996 - 2006

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
-	**91**	-	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	**91**	-	-	-	-	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**91**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	-	**91**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea								
1	2	3	4	5	6	7	8	9
-	**1**	-	-	-	**90**	-	-	-

NAFO								
1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **1/2 cm below**

min length 3.75 *[cm]*

max length 28.75 *[cm]*

male	19
female	11
undefined	61
total numbers of data	91

Clupea harengus *June*

Geographical distribution of data used for calculating the length-weight relationship

Clupea harengus — *June*

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **= 0.0038**

b **= 3.2383**

data collected

time period : 1996 - 2004

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
-	**1514**	-	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	-	**1514**	-	-	-	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**1514**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**750**	**764**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea								
1	2	3	4	5	6	7	8	9
381	-	**369**	**1**	-	**322**	**441**	-	-

NAFO								
1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **1/2 cm below**

min length	4.75 *[cm]*
max length	31.25 *[cm]*

male	638
female	554
undefined	322
total numbers of data	1514

Clupea harengus *Quarter 3*

Geographical distribution of data used for calculating the length-weight relationship

Clupea harengus

Quarter: **3**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0033**

b **=** **3.2912**

data collected

time period : **1996 - 2007**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
-	-	**11796**	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	-	-	**8655**	**2330**	**811**	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**11796**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**1539**	**9709**	**548**	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
558	**375**	**961**	**1165**	**562**	**5154**	**3021**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **1/2 cm below**

min length 4.75 *[cm]*

max length 34.25 *[cm]*

male	4323
female	4323
undefined	3150
total numbers of data	11796

Clupea harengus *July*

Geographical distribution of data used for calculating the length-weight relationship

Clupea harengus — *July*

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0032**

b **=** **3.3017**

data collected

time period : **1996 - 2007**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
-	-	**8655**	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	-	-	**8655**	-	-	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**8655**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**870**	**7237**	**548**	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
337	**250**	**519**	**730**	**561**	**3685**	**2573**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **1/2 cm below**

min length	4.75 *[cm]*
max length	34.25 *[cm]*

male	3247
female	3138
undefined	2270
total numbers of data	8655

Clupea harengus *August*

Geographical distribution of data used for calculating the length-weight relationship

Clupea harengus — *August*

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **= 0.0037**

b **= 3.2582**

data collected

time period : 1996 - 2007

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
-	-	**2330**	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	-	-	-	**2330**	-	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**2330**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**426**	**1904**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea								
1	2	3	4	5	6	7	8	9
221	**81**	**199**	**261**	**1**	**1263**	**304**	-	-

NAFO								
1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **1/2 cm below**

min length	6.75 *[cm]*
max length	32.75 *[cm]*

male	727
female	865
undefined	738
total numbers of data	2330

Clupea harengus *September*

Geographical distribution of data used for calculating the length-weight relationship

Clupea harengus — *September*

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **= 0.0027**

b **= 3.338**

data collected

time period : 1996 - 2006

data source : research vessel

numbers of data:

Quarter

1	2	3	4
-	-	**811**	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	-	-	-	-	**811**	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**811**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**243**	**568**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
-	**44**	**243**	**174**	-	**206**	**144**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **1/2 cm below**

min length	4.75 *[cm]*
max length	31.75 *[cm]*

male	349
female	320
undefined	142
total numbers of data	811

Clupea harengus *Quarter 4*

Geographical distribution of data used for calculating the length-weight relationship

Clupea harengus

Quarter: **4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.003**

b **=** **3.3231**

data collected

time period : **1996 - 2006**

data source : **commercial trawler**

numbers of data:

Quarter

1	2	3	4
-	-	-	**4012**

Month

1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	-	-	-	-	-	**13**	**18**	**3981**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**308**	-	-	**3704**	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**275**	**33**	-	-	-	-	-	-	-	-	**3704**	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
275	**1**	**3**	-	-	**29**	-	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **1/2 cm below**

min length	6.25 *[cm]*
max length	33.75 *[cm]*

male	878
female	959
undefined	2174
total numbers of data	4012

Conger conger

Geographical distribution of data used for calculating the length-weight relationship

Conger conger

Quarter: **1 - 3**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0001**

b **=** **3.7272**

data collected

time period : **1962 - 2007**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
21	**6**	**2**	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
5	**8**	**8**	**6**	-	-	-	-	**2**	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**9**	-	**3**	**13**	**4**	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**6**	**3**	-	-	-	**3**	-	-	**1**	-	**1**	**1**	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
2	**4**	**4**	-	**2**	-	**1**	**1**	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
5	-	**1**	**1**	**1**	**1**	-	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 47.5 *[cm]*

max length 161.5 *[cm]*

male -

female -

undefined 29

total numbers of data 29

Crangon allmanni

Geographical distribution of data used for calculating the length-weight relationship

Crangon allmanni

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[mm]}^{\,b}$$

a **=** **0.0000016**

b **=** **3.3272115**

data collected

time period : **2001 - 2010**
data source : **research vessel**

numbers of data:

Quarter			
1	2	3	4
1087	**10**	**3**	**2**

Month											
1	2	3	4	5	6	7	8	9	10	11	12
1087	-	-	**2**	**8**	-	-	-	**3**	**2**	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**1102**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	-	**1102**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea									NAFO								
1	2	3	4	5	6	7	8	9	1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	**937**	**165**	-	-	-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **mm below**

min length	37.5 *[mm]*	**male**	69
max length	67.5 *[mm]*	**female**	292
		undefined	741
		total numbers of data	1102

Crangon allmanni ♀

Geographical distribution of data used for calculating the length-weight relationship

Crangon allmanni ♀

Quarter: 1 - 3

$Tw_{[g]} = a * L_{[mm]}^{b}$

a = 0.0000027

b = 3.2114476

data collected

time period : 2001 - 2010

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
285	**5**	**2**	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
285	-	-	**1**	**4**	-	-	-	**2**	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**292**	-	-	-	-	-	-	-	-

Division																		
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	-	**292**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea									NAFO								
1	2	3	4	5	6	7	8	9	1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	**233**	**59**	-	-	-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **mm below**

min length 37.5 *[mm]*

max length 67.5 *[mm]*

male	-
female	292
undefined	-
total numbers of data	292

Crangon allmanni ♂

Geographical distribution of data used for calculating the length-weight relationship

Crangon allmanni ♂

Quarter: 1

$Tw_{[g]} = a * L_{[mm]}^{b}$

a = 0.0000192

b = 2.6677417

data collected

time period : 2009 - 2010

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
69	-	-	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
69	-	-	-	-	-	-	-	-	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	69	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	-	69	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea									NAFO								
1	2	3	4	5	6	7	8	9	1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	41	28	-	-	-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **mm below**

min length 39.5 *[mm]*

max length 54.5 *[mm]*

male	69
female	-
undefined	-
total numbers of data	69

Crangon crangon

Geographical distribution of data used for calculating the length-weight relationship

Crangon crangon

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[mm]}^{\,b}$$

a **=** **0.0000022**

b **=** **3.278553**

data collected

time period : **2002 - 2008**
data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
1504	**1467**	**3360**	**1586**

Month

1	2	3	4	5	6	7	8	9	10	11	12
1504	-	-	**427**	**1040**	-	-	-	**3360**	**1586**	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**7917**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	-	**7917**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
-	-	-	-	-	**7917**	-	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **mm below**

min length	17.5 *[mm]*	**male**	3108
max length	81.5 *[mm]*	**female**	4000
		undefined	808
		total numbers of data	7917

Crangon crangon ♀

Geographical distribution of data used for calculating the length-weight relationship

Crangon crangon ♀

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[mm]}^{\,b}$$

a **=** **0.0000021**

b **=** **3.2878593**

data collected

time period : **2002 - 2003**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
976	**737**	**1814**	**473**

Month

1	2	3	4	5	6	7	8	9	10	11	12
976	-	-	**254**	**483**	-	-	-	**1814**	**473**	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**4000**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	-	**4000**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
-	-	-	-	-	**4000**	-	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **mm below**

min length 22.5 *[mm]*

max length 81.5 *[mm]*

male	-
female	4000
undefined	-
total numbers of data	4000

Crangon crangon ♂

Geographical distribution of data used for calculating the length-weight relationship

Crangon crangon ♂

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[mm]}^{\,b}$$

a **=** **0.0000049**

b **=** **3.0488185**

data collected

time period : **2002 - 2003**
data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
482	**713**	**1488**	**425**

Month

1	2	3	4	5	6	7	8	9	10	11	12
482	-	-	**164**	**549**	-	-	-	**1488**	**425**	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**3108**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	-	**3108**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
-	-	-	-	-	**3108**	-	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **mm below**

min length	24.5 *[mm]*	**male**	3108
max length	58.5 *[mm]*	**female**	-
		undefined	-
		total numbers of data	3108

Cyclopterus lumpus

Geographical distribution of data used for calculating the length-weight relationship

Cyclopterus lumpus

Quarter: 1 - 4

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* = 0.063**

***b* = 2.9405**

data collected

time period : 1994 - 2007

data source : research vessel

numbers of data:

Quarter

1	2	3	4
164	**24**	**37**	**14**

Month

1	2	3	4	5	6	7	8	9	10	11	12
79	**72**	**13**	**5**	**14**	**5**	**20**	**14**	**3**	**1**	**9**	**4**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	**1**	-	**237**	-	**1**	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	**1**	-	-	-	-	-	**78**	**156**	**3**	-	-	**1**	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
39	**25**	**35**	**4**	**1**	**111**	**22**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	3.5 *[cm]*
max length	50.5 *[cm]*

male	2
female	3
undefined	234
total numbers of data	239

Dicentrarchus labrax

Geographical distribution of data used for calculating the length-weight relationship

Dicentrarchus labrax

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0258**

b **=** **2.7287**

data collected

time period : **1990 - 2004**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
9	**5**	**1**	**6**

Month

1	2	3	4	5	6	7	8	9	10	11	12
6	**2**	**1**	**1**	**3**	**1**	-	-	**1**	-	**1**	**5**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**19**	-	-	**2**	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	-	**16**	**3**	-	-	-	-	-	-	-	**1**	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	**1**	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
-	-	-	-	-	**13**	-	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 7.5 *[cm]*

max length 54.5 *[cm]*

male -

female -

undefined 21

total numbers of data 21

Echiichthys vipera

Geographical distribution of data used for calculating the length-weight relationship

Echiichthys vipera

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0115**

b **=** **2.9894**

data collected

time period : **2000 - 2010**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
42	**127**	**188**	**23**

Month

1	2	3	4	5	6	7	8	9	10	11	12
32	**9**	**1**	**1**	**126**	-	**57**	**128**	**3**	**2**	**11**	**10**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**380**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	-	**350**	**30**	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
-	**18**	-	**113**	**30**	**212**	**7**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below, mm below**

min length 1.85 *[cm]*

max length 18.5 *[cm]*

male	-
female	-
undefined	380
total numbers of data	380

Engraulis encrasicolus

Geographical distribution of data used for calculating the length-weight relationship

Engraulis encrasicolus

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0041**

b **=** **3.147**

data collected

time period : **1995 - 2007**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
331	**45**	**221**	**19**

Month

1	2	3	4	5	6	7	8	9	10	11	12
166	**159**	**6**	**2**	**3**	**40**	**197**	**22**	**2**	**3**	**14**	**2**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**608**	-	**3**	**2**	**3**	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**145**	**462**	**1**	-	-	**3**	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	**2**	-	**3**	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
22	**156**	**132**	**1**	**2**	**291**	**4**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **1/2 cm below**

min length	3.75 *[cm]*	**male**	186
max length	21.25 *[cm]*	**female**	194
		undefined	236
		total numbers of data	616

Entelurus aequoreus

Geographical distribution of data used for calculating the length-weight relationship

Entelurus aequoreus

Quarter: **1 - 3**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0003**

b **=** **2.7807**

data collected

time period : **2004 - 2008**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
32	**66**	**307**	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
17	**15**	-	**7**	**59**	-	**121**	**186**	-	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**405**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**199**	**206**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
114	**13**	**54**	**123**	-	**20**	**31**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 16.5 *[cm]*

max length 45.5 *[cm]*

male	70
female	74
undefined	261
total numbers of data	405

Eutrigla gurnardus

Geographical distribution of data used for calculating the length-weight relationship

Eutrigla gurnardus

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0112**

b **=** **2.8774**

data collected

time period : **2000 - 2011**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
346	**150**	**190**	**36**

Month

1	2	3	4	5	6	7	8	9	10	11	12
171	**171**	**4**	**6**	**139**	**5**	**77**	**99**	**14**	**3**	**16**	**17**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**718**	-	-	**4**	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**138**	**544**	**36**	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	**1**	**3**	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
20	**127**	**118**	**6**	**34**	**395**	**18**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below, mm below**

min length 1.95 *[cm]*

max length 38.5 *[cm]*

male	-
female	-
undefined	722
total numbers of data	722

Gadiculus argenteus

Geographical distribution of data used for calculating the length-weight relationship

Gadiculus argenteus

Quarter: **1 - 2**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0154**

b **=** **2.7217**

data collected

time period : **1995 - 2008**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
83	**19**	-	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
71	**12**	-	-	**19**	-	-	-	-	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**102**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**102**	-	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
101	-	**1**	-	-	-	-	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below, 1/2 cm below**

min length 5.75 *[cm]*

max length 15.25 *[cm]*

male	-
female	-
undefined	102
total numbers of data	102

Gadus morhua

Geographical distribution of data used for calculating the length-weight relationship

Gadus morhua

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0065**

b **=** **3.0982**

data collected

time period : **1994 - 2007**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
6400	**2529**	**5999**	**1737**

Month

1	2	3	4	5	6	7	8	9	10	11	12
3280	**2769**	**351**	**101**	**1386**	**1042**	**2908**	**2446**	**645**	**1210**	**445**	**82**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
711	**833**	-	**15056**	-	-	**65**	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
711	**451**	**382**	-	-	-	-	**7084**	**7935**	**37**	-	-	-	-	-	-	-	-	**2**	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
47	**2**	**14**	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
4874	**2088**	**1601**	**1716**	**129**	**2644**	**2003**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	3.5 *[cm]*
max length	120.5 *[cm]*

male	6647
female	6608
undefined	3410
total numbers of data	16665

Gadus morhua ♀

Geographical distribution of data used for calculating the length-weight relationship

Gadus morhua ♀

(female)

Quarter: 1 - 4

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* = 0.0061**

***b* = 3.1144**

data collected

time period : 1994 - 2009

data source : research vessel

numbers of data:

Quarter

1	2	3	4
3024	**1239**	**3061**	**46**

Month

1	2	3	4	5	6	7	8	9	10	11	12
1464	**1400**	**160**	**38**	**675**	**526**	**1260**	**1459**	**342**	-	**30**	**16**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
314	**2**	-	**7042**	-	-	**12**	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	**2**	-	-	-	-	-	**3628**	**3413**	**1**	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
7	-	**5**	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
2526	**995**	**768**	**847**	**124**	**840**	**918**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	**314**	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 6.5 *[cm]*

max length 119.5 *[cm]*

male	-
female	7370
undefined	-
total numbers of data	7370

Gadus morhua ♂

Geographical distribution of data used for calculating the length-weight relationship

Gadus morhua ♂

Quarter: 1 - 4

(male)

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* = 0.0062**

***b* = 3.1113**

data collected

time period : 1994 - 2009

data source : research vessel

numbers of data:

Quarter

1	2	3	4
3170	**1096**	**3008**	**43**

Month

1	2	3	4	5	6	7	8	9	10	11	12
1502	**1489**	**179**	**41**	**597**	**458**	**1329**	**1338**	**341**	-	**22**	**21**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
238	**9**	-	**7063**	-	-	**7**	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	**9**	-	-	-	-	-	**3610**	**3450**	**3**	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
3	**1**	**3**	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
2536	**1023**	**748**	**803**	**126**	**895**	**903**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	**238**	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 8.5 *[cm]*

max length 118.5 *[cm]*

male	7317
female	-
undefined	-
total numbers of data	7317

Gadus morhua *Quarter 1*

Geographical distribution of data used for calculating the length-weight relationship

Gadus morhua

Quarter: **1**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.005**

b **=** **3.1693**

data collected

time period : **1994 - 2007**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
9355	-	-	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
5440	**3533**	**382**	-	-	-	-	-	-	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	**2996**	-	**6339**	-	-	**20**	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	**2711**	**285**	-	-	-	-	**4334**	**1983**	**22**	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
13	**2**	**5**	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
3242	**895**	**708**	-	-	**866**	**627**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	7.5 *[cm]*
max length	126.5 *[cm]*

male	2940
female	2768
undefined	3647
total numbers of data	9355

Gadus morhua *January*

Geographical distribution of data used for calculating the length-weight relationship

Gadus morhua — *January*

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0073**

b **=** **3.052**

data collected

time period : **1994 - 2007**

data source : **research vessel**

numbers of data:

Quarter			
1	2	3	4
5436	-	-	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
5436	-	-	-	-	-	-	-	-	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	**2212**	-	**3224**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	**1927**	**285**	-	-	-	-	**2088**	**1135**	**1**	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea								
1	2	3	4	5	6	7	8	9
1611	**133**	**226**	-	-	**713**	**541**	-	-

NAFO								
1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	7.5 *[cm]*
max length	126.5 *[cm]*

male	1416
female	1373
undefined	2647
total numbers of data	5436

Gadus morhua *February*

Geographical distribution of data used for calculating the length-weight relationship

Gadus morhua — *February*

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.006**

b **=** **3.111**

data collected

time period : **1994 - 2007**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
3533	-	-	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
-	**3533**	-	-	-	-	-	-	-	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	**773**	-	**2760**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	**773**	-	-	-	-	-	**2021**	**736**	**3**	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
1452	**686**	**428**	-	-	**109**	**84**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	10.5 *[cm]*
max length	119.5 *[cm]*

male	1337
female	1235
undefined	961
total numbers of data	3533

Gadus morhua *March*

Geographical distribution of data used for calculating the length-weight relationship

Gadus morhua — *March*

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0053**

b **=** **3.1528**

data collected

time period : **1994 - 2005**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
382	-	-	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
-	-	**382**	-	-	-	-	-	-	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	**11**	-	**351**	-	-	**20**	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	**11**	-	-	-	-	-	**225**	**109**	**17**	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
13	**2**	**5**	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
179	**76**	**54**	-	-	**40**	**2**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	8.5 *[cm]*
max length	113.5 *[cm]*

male	187
female	160
undefined	35
total numbers of data	382

Gadus morhua *Quarter 2*

Geographical distribution of data used for calculating the length-weight relationship

Gadus morhua

Quarter: **2**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0069**

b **=** **3.0855**

data collected

time period : **1994 - 2006**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
-	**2529**	-	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	**101**	**1386**	**1042**	-	-	-	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**2464**	-	-	**65**	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**735**	**1729**	-	-	-	-	-	-	-	-	-	**2**	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
47	**2**	**14**	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
341	**499**	**381**	**235**	-	**625**	**383**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	3.5 *[cm]*
max length	119.5 *[cm]*

male	1035
female	1182
undefined	312
total numbers of data	2529

Gadus morhua *April*

Geographical distribution of data used for calculating the length-weight relationship

Gadus morhua *April*

$Tw_{[g]} = a * L_{[cm]}^{b}$

a **= 0.0053**

b **= 0.1666**

data collected

time period : 1995 - 2006

data source : research vessel

numbers of data:

Quarter

1	2	3	4
-	**101**	-	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	**101**	-	-	-	-	-	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**36**	-	-	**65**	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	-	**36**	-	-	-	-	-	-	-	-	-	**2**	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
47	**2**	**14**	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
-	**4**	-	**5**	-	**26**	**1**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	10.5 *[cm]*
max length	117.5 *[cm]*

male	13
female	14
undefined	74
total numbers of data	101

Gadus morhua *May*

Geographical distribution of data used for calculating the length-weight relationship

Gadus morhua — *May*

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0067**

b **=** **3.0873**

data collected

time period : **1994 - 2006**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
-	**1386**	-	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	**1386**	-	-	-	-	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**1386**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**354**	**1032**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
341	**380**	-	**204**	-	**130**	**331**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	4.5 *[cm]*
max length	119.5 *[cm]*

male	600
female	680
undefined	106
total numbers of data	1386

Gadus morhua *June*

Geographical distribution of data used for calculating the length-weight relationship

Gadus morhua *June*

$Tw_{[g]} = a * L_{[cm]}^{b}$

a **= 0.0081**

b **= 3.0489**

data collected

time period : 1994 - 2005

data source : research vessel

numbers of data:

Quarter

1	2	3	4
-	**1042**	-	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	-	**1042**	-	-	-	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**1042**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**381**	**661**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
-	**115**	**381**	**26**	-	**469**	**51**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 3.5 *[cm]*

max length 99.5 *[cm]*

male	422
female	488
undefined	132
total numbers of data	1042

Gadus morhua *Quarter 3*

Geographical distribution of data used for calculating the length-weight relationship

Gadus morhua

Quarter: **3**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0072**

b **=** **3.0723**

data collected

time period : **1994 - 2006**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
-	-	**5714**	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	-	-	**2718**	**2351**	**645**	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**5714**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**1822**	**3876**	**16**	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
1127	**657**	**473**	**1440**	**129**	**926**	**962**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	4.5 *[cm]*
max length	118.5 *[cm]*

male	2482
female	2522
undefined	710
total numbers of data	5714

Gadus morhua *July*

Geographical distribution of data used for calculating the length-weight relationship

Gadus morhua *July*

$Tw_{[g]} = a * L_{[cm]}^{b}$

a = 0.0074

b = 3.0693

data collected

time period : 1994 - 2006

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
-	-	**2718**	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	-	-	**2718**	-	-	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**2718**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**1257**	**1445**	**16**	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea								
1	2	3	4	5	6	7	8	9
853	**300**	**287**	**240**	**126**	**270**	**642**	-	-

NAFO								
1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 4.5 *[cm]*

max length 118.5 *[cm]*

male	1204
female	1197
undefined	317
total numbers of data	2718

Gadus morhua *August*

Geographical distribution of data used for calculating the length-weight relationship

Gadus morhua — *August*

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **= 0.0075**

b **= 3.0613**

data collected

time period : 1994 - 2006

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
-	-	**2351**	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	-	-	-	**2351**	-	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**2351**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**526**	**1825**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea								
1	2	3	4	5	6	7	8	9
274	**307**	**147**	**1036**	**3**	**426**	**158**	-	-

NAFO								
1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	5.5 *[cm]*
max length	112.5 *[cm]*

male	976
female	1043
undefined	332
total numbers of data	2351

Gadus morhua *September*

Geographical distribution of data used for calculating the length-weight relationship

Gadus morhua — *September*

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **= 0.0062**

b **= 3.1121**

data collected

time period : 1995 - 2006

data source : research vessel

numbers of data:

Quarter

1	2	3	4
-	-	**645**	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	-	-	-	-	**645**	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**645**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**39**	**606**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
-	**50**	**39**	**164**	-	**230**	**162**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	9.5 *[cm]*
max length	111.5 *[cm]*

male	302
female	282
undefined	61
total numbers of data	645

Gadus morhua *Quarter 4*

Geographical distribution of data used for calculating the length-weight relationship

Gadus morhua

Quarter: **4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0076**

b **=** **3.0488**

data collected

time period : **1994 - 2006**

data source : **research vessel, commercial trawler**

numbers of data:

Quarter

1	2	3	4
-	-	-	**1737**

Month

1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	-	-	-	-	-	**1210**	**445**	**82**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
711	**833**	-	**193**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
711	**451**	**382**	-	-	-	-	**2**	**191**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
2	**26**	**6**	-	-	**159**	-	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 5.5 *[cm]*

max length 120.5 *[cm]*

male	28
female	31
undefined	1678
total numbers of data	1737

Gadus morhua *October*

Geographical distribution of data used for calculating the length-weight relationship

Gadus morhua — *October*

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.008**

b **=** **3.0347**

data collected

time period : **1995 - 2006**

data source : **research vessel, commercial trawler**

numbers of data:

Quarter

1	2	3	4
-	-	-	**1210**

Month

1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	-	-	-	-	-	**1210**	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
711	**468**	-	**31**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
711	**86**	**382**	-	-	-	-	-	**31**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
-	-	-	-	-	**31**	-	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 5.5 *[cm]*

max length 120.5 *[cm]*

male -

female -

undefined 1210

total numbers of data 1210

Gadus morhua *November*

Geographical distribution of data used for calculating the length-weight relationship

Gadus morhua *November*

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.006**

b **=** **3.1119**

data collected

time period : 1996 - 2006

data source : research vessel, commercial trawler

numbers of data:

Quarter			
1	2	3	4
-	-	-	**445**

Month											
1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	-	-	-	-	-	-	**445**	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	**365**	-	**80**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	**365**	-	-	-	-	-	-	**80**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea								
1	2	3	4	5	6	7	8	9
-	**26**	**6**	-	-	**48**	-	-	-

NAFO								
1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	7.5 *[cm]*
max length	101.5 *[cm]*

male	12
female	17
undefined	416
total numbers of data	445

Gadus morhua *December*

Geographical distribution of data used for calculating the length-weight relationship

Gadus morhua — *December*

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **= 0.0055**

b **= 3.1707**

data collected

time period : 1990 - 2006

data source : research vessel

numbers of data:

Quarter

1	2	3	4
-	-	-	**300**

Month

1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	-	-	-	-	-	-	-	**300**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**296**	-	-	**4**	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**2**	**293**	**1**	-	-	-	-	-	-	-	**4**	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
2	-	-	-	-	**294**	-	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	10.5 *[cm]*
max length	114.5 *[cm]*

male	52
female	43
undefined	205
total numbers of data	300

Gaidropsarus vulgaris

Geographical distribution of data used for calculating the length-weight relationship

Gaidropsarus vulgaris

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0172**

b **=** **2.7135**

data collected

time period : **1977 - 2006**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
40	**5**	**1**	**3**

Month

1	2	3	4	5	6	7	8	9	10	11	12
31	**6**	**3**	**2**	**1**	**2**	-	**1**	-	**3**	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**46**	-	-	**1**	**2**	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**4**	**42**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	**1**	-	**2**	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
2	-	**1**	-	-	**41**	**2**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 6.5 *[cm]*

max length 41.5 *[cm]*

male	-
female	-
undefined	49
total numbers of data	49

Galeorhinus galeus

Geographical distribution of data used for calculating the length-weight relationship

Galeorhinus galeus

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0049**

b **=** **2.9819**

data collected

time period : **1963 - 2007**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
8	**6**	**49**	**7**

Month

1	2	3	4	5	6	7	8	9	10	11	12
3	**3**	**2**	**3**	-	**3**	**35**	**13**	**1**	**1**	**6**	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**64**	-	**1**	**3**	**2**	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**2**	**56**	**6**	-	-	**1**	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	**3**	-	-	**1**	**1**	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
-	**3**	**4**	**1**	**6**	**50**	-	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	23.5 *[cm]*	**male**	25
max length	156.5 *[cm]*	**female**	24
		undefined	21
		total numbers of data	70

Galeorhinus galeus ♀

Geographical distribution of data used for calculating the length-weight relationship

Galeorhinus galeus ♀

Quarter: 2 - 3

(female)

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* = 0.0114**

***b* = 2.7697**

data collected

time period : 1991 - 2007

data source : research vessel

numbers of data:

Quarter

1	2	3	4
-	**1**	**23**	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	**1**	-	-	**16**	**6**	**1**	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**23**	-	-	-	**1**	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	-	**22**	**1**	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	**1**	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
-	-	-	-	**1**	**22**	-	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	23.5 *[cm]*
max length	156.5 *[cm]*

male	-
female	24
undefined	-
total numbers of data	24

Galeorhinus galeus ♂

Geographical distribution of data used for calculating the length-weight relationship

Galeorhinus galeus ♂

(male)

Quarter: 1 - 4

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* = 0.0043**

***b* = 3.0112**

data collected

time period : 1963 - 2006

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
4	**1**	**17**	**3**

Month											
1	2	3	4	5	6	7	8	9	10	11	12
3	**1**	-	**1**	-	-	**11**	**6**	-	-	**3**	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**24**	-	-	**1**	-	-	-	-	-

Division																		
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**2**	**20**	**2**	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	**1**	-	-	-	-	-	-	-	-	-

Roundfisharea								
1	2	3	4	5	6	7	8	9
-	**2**	**4**	**1**	**2**	**15**	-	-	-

NAFO								
1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	33.5 *[cm]*	**male**	25
max length	154.5 *[cm]*	**female**	-
		undefined	-
		total numbers of data	25

Gasterosteus aculeatus

Geographical distribution of data used for calculating the length-weight relationship

Gasterosteus aculeatus

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **= 0.0239**

b **= 2.6111**

data collected

time period : 1994 - 2008
data source : research vessel

numbers of data:

Quarter

1	2	3	4
90	**25**	**2**	**5**

Month

1	2	3	4	5	6	7	8	9	10	11	12
81	**3**	**6**	**11**	**14**	-	-	**1**	**1**	-	**4**	**1**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**122**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	-	**122**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
-	-	-	-	-	**113**	**9**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **1/2 cm below, cm below**

min length 3.75 *[cm]*
max length 8.5 *[cm]*

male	-
female	-
undefined	122
total numbers of data	122

Glyptocephalus cynoglossus

Geographical distribution of data used for calculating the length-weight relationship

Glyptocephalus cynoglossus **Quarter: 1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **= 0.0032**

b **= 3.1895**

data collected

time period : 1994 - 2008

data source : research vessel

numbers of data:

Quarter

1	2	3	4
149	**26**	**161**	**7**

Month

1	2	3	4	5	6	7	8	9	10	11	12
55	**82**	**12**	**3**	**15**	**8**	**67**	**85**	**9**	-	**7**	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**339**	-	-	**4**	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**194**	**145**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
1	-	**3**	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
121	**59**	**76**	**30**	-	**9**	**44**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 4.5 *[cm]*

max length 54.5 *[cm]*

male	-
female	-
undefined	343
total numbers of data	343

Helicolenus dactylopterus

Geographical distribution of data used for calculating the length-weight relationship

Helicolenus dactylopterus

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0098**

b **=** **3.1616**

data collected

time period : **1987 - 2007**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
67	**35**	**16**	**9**

Month

1	2	3	4	5	6	7	8	9	10	11	12
19	**28**	**20**	**13**	**8**	**14**	**10**	**6**	-	-	**9**	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**94**	-	**7**	**23**	**3**	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**67**	**27**	-	-	-	**5**	**2**	-	**2**	**2**	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	**3**	**16**	-	**3**	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
41	**6**	**27**	**5**	-	**9**	**5**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below, 1/2 cm below**

min length 5.25 *[cm]*

max length 46.5 *[cm]*

male	-
female	-
undefined	127
total numbers of data	127

Hippoglossoides platessoides

Geographical distribution of data used for calculating the length-weight relationship

Hippoglossoides platessoides *Quarter:* 1 - 4

$Tw_{[g]} = a * L_{[cm]}^{b}$

a = 0.0034

b = 3.2851

data collected

time period : 2000 - 2011

data source : research vessel, commercial trawler

numbers of data:

Quarter			
1	2	3	4
81	35	1007	329

Month											
1	2	3	4	5	6	7	8	9	10	11	12
48	33	-	5	24	6	94	913	-	309	12	8

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
84	865	2	501	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
84	-	865	2	-	-	-	185	316	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea									NAFO								
1	2	3	4	5	6	7	8	9	1A	1B	1C	1D	1E	1F	2G	2H	2J
178	45	4	67	-	143	62	2	-	-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below, mm below**

min length	2.85 *[cm]*	**male**	-
max length	51.5 *[cm]*	**female**	-
		undefined	1452
		total numbers of data	1452

Hippoglossus hippoglossus

Geographical distribution of data used for calculating the length-weight relationship

Hippoglossus hippoglossus **Quarter: 1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* = 0.0026**

***b* = 3.3322**

data collected

time period : 1981 - 2007

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
51	**20**	**47**	**2**

Month											
1	2	3	4	5	6	7	8	9	10	11	12
18	**25**	**8**	-	**8**	**12**	**34**	**12**	**1**	-	**2**	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**114**	**3**	**2**	**1**	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**78**	**36**	-	-	**3**	**2**	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	**1**	-	-	-	-	-	-	-	-

Roundfisharea								
1	2	3	4	5	6	7	8	9
57	**24**	**16**	-	-	**2**	**15**	-	-

NAFO								
1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 25.5 *[cm]*

max length 167.5 *[cm]*

male	4
female	-
undefined	116
total numbers of data	120

Hyperoplus lanceolatus

Geographical distribution of data used for calculating the length-weight relationship

Hyperoplus lanceolatus

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **= 0.0066**

b **= 2.6967**

data collected

time period : 1994 - 2009

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
109	**135**	**496**	**42**

Month											
1	2	3	4	5	6	7	8	9	10	11	12
88	**19**	**2**	**6**	**111**	**18**	**288**	**194**	**14**	**4**	**17**	**21**

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**780**	-	-	**2**	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**18**	**731**	**31**	-	-	-	-	-	-	-	-	**1**	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	**1**	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea									NAFO								
1	2	3	4	5	6	7	8	9	1A	1B	1C	1D	1E	1F	2G	2H	2J
3	**54**	**10**	**1**	**43**	**586**	**83**	-	-	-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 6.5 *[cm]*

max length 34.5 *[cm]*

male	-
female	-
undefined	782
total numbers of data	782

Lampetra fluviatilis

Geographical distribution of data used for calculating the length-weight relationship

Lampetra fluviatilis

Quarter: 1 - 4

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* = 0.0005**

***b* = 3.3567**

data collected

time period : 1955 - 2007

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
8	**32**	**88**	**50**

Month											
1	2	3	4	5	6	7	8	9	10	11	12
7	**1**	-	**5**	**8**	**19**	**28**	**40**	**20**	**7**	**20**	**23**

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**178**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	-	**174**	**4**	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea								
1	2	3	4	5	6	7	8	9
-	-	-	**1**	**4**	**173**	-	-	-

NAFO								
1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below, 1/2 cm below**

min length 9.25 *[cm]*

max length 38.75 *[cm]*

male	-
female	1
undefined	177
total numbers of data	178

Lepidorhombus whiffiagonis

Geographical distribution of data used for calculating the length-weight relationship

Lepidorhombus whiffiagonis **Quarter: 1 - 3**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* = 0.0026**

***b* = 3.2967**

data collected

time period : 1994 - 2007

data source : research vessel

numbers of data:

Quarter

1	2	3	4
209	**23**	**15**	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
34	**156**	**19**	**5**	**18**	-	**9**	**6**	-	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**230**	-	**3**	**8**	**6**	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**229**	**1**	-	-	-	**3**	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
5	**2**	**1**	-	**5**	-	-	**1**	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
208	-	**21**	-	-	**1**	-	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 15.5 *[cm]*

max length 52.5 *[cm]*

male	27
female	63
undefined	157
total numbers of data	247

Limanda limanda

Geographical distribution of data used for calculating the length-weight relationship

Limanda limanda

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **= 0.0087**

b **= 0.3226**

data collected

time period : 2000 - 2011
data source : research vessel

numbers of data:

Quarter			
1	2	3	4
206	**65**	**447**	**25**

Month											
1	2	3	4	5	6	7	8	9	10	11	12
141	**65**	-	**13**	**48**	**4**	**206**	**136**	**105**	**25**	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**743**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**105**	**624**	**14**	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea									NAFO								
1	2	3	4	5	6	7	8	9	1A	1B	1C	1D	1E	1F	2G	2H	2J
98	**46**	**6**	**4**	**14**	**507**	**68**	-	-	-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below, mm below**

min length	1.35 *[cm]*	**male**	92
max length	33.5 *[cm]*	**female**	90
		undefined	561
		total numbers of data	743

Limanda limanda ♀

Geographical distribution of data used for calculating the length-weight relationship

Limanda limanda ♀

Quarter: 1 - 3

$Tw_{[g]} = a * L_{[cm]}^{b}$

a = 0.0076

b = 3.0584

data collected

time period : 2000 - 2011

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
70	**1**	**19**	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
38	**32**	-	-	**1**	-	**13**	**6**	-	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**90**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**53**	**36**	**1**	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea								
1	2	3	4	5	6	7	8	9
49	**3**	**4**	-	**1**	**32**	**1**	-	-

NAFO								
1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 4.5 *[cm]*

max length 33.5 *[cm]*

male	-
female	90
undefined	-
total numbers of data	90

Limanda limanda ♂

Geographical distribution of data used for calculating the length-weight relationship

Limanda limanda ♂

Quarter: 1 ; 3

$Tw_{[g]} = a * L_{[cm]}^{b}$

a = 0.0076

b = 3.0587

data collected

time period : 2000 - 2011

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
74	-	**18**	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
46	**28**	-	-	-	-	**14**	**4**	-	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**92**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**44**	**39**	**9**	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea								
1	2	3	4	5	6	7	8	9
41	**3**	**2**	-	**9**	**36**	**1**	-	-

NAFO								
1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 5.5 *[cm]*

max length 25.5 *[cm]*

male	92
female	-
undefined	-
total numbers of data	92

Liparis liparis

Geographical distribution of data used for calculating the length-weight relationship

Liparis liparis

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0172**

b **=** **3.0359**

data collected

time period : **1994 - 2007**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
57	**11**	**40**	**26**

Month

1	2	3	4	5	6	7	8	9	10	11	12
49	**8**	-	**3**	**4**	**4**	**1**	**4**	**35**	**6**	**10**	**10**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**134**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	-	**134**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
-	-	-	-	-	**130**	**4**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **1/2 cm below; cm below**

min length 3.5 *[cm]*

max length 16.5 *[cm]*

male	-
female	-
undefined	134
total numbers of data	134

Liparis montagui

Geographical distribution of data used for calculating the length-weight relationship

Liparis montagui

Quarter: **1; 3; 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0131**

b **=** **3.1228**

data collected

time period : **1995 - 2008**
data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
11	-	**4**	**14**

Month

1	2	3	4	5	6	7	8	9	10	11	12
10	**1**	-	-	-	-	-	-	**4**	**10**	**1**	**3**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**29**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	-	**29**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
-	**1**	-	-	-	**28**	-	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 6.5 *[cm]*
max length 15.5 *[cm]*

male -
female -
undefined 29

total numbers of data 29

Lithodes maja

Geographical distribution of data used for calculating the length-weight relationship

Lithodes maja

Quarter: **1 ; 3**

$$Tw_{[g]} = a * L_{[mm]}^{\,b}$$

a **= 0.00057**

b **= 2.99662**

data collected

time period : 2004 - 2009
data source : research vessel

numbers of data:

Quarter			
1	2	3	4
69	-	**151**	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
31	**38**	-	-	-	-	**76**	**75**	-	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**220**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**124**	**96**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea								
1	2	3	4	5	6	7	8	9
114	**24**	**11**	**65**	-	-	**6**	-	-

NAFO								
1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Carapace length**
- **mm below**

min length 18.5 *[mm]*
max length 132.5 *[mm]*

male	65
female	123
undefined	32
total numbers of data	220

Lithodes maja ♀

Geographical distribution of data used for calculating the length-weight relationship

Lithodes maja ♀

(female)

Quarter: 1 ; 3

$$Tw_{[g]} = a * L_{[mm]}^{\,b}$$

***a* = 0.00093**

***b* = 2.88717**

data collected

time period : 2005 - 2009

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
27	-	**96**	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
15	**12**	-	-	-	-	**58**	**38**	-	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**123**	-	-	-	-	-	-	-	-

Division																		
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**69**	**54**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea								
1	2	3	4	5	6	7	8	9
64	**12**	**5**	**36**	-	-	**6**	-	-

NAFO								
1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Carapace length**
- **mm below**

min length 34.5 *[mm]*

max length 130.5 *[mm]*

male	-
female	123
undefined	-
total numbers of data	123

Lithodes maja ♂

Geographical distribution of data used for calculating the length-weight relationship

Lithodes maja ♂

Quarter: 1 ; 3

(male)

$$Tw_{[g]} = a * L_{[mm]}^{\,b}$$

***a* = 0.00035**

***b* = 3.10704**

data collected

time period : 2005 - 2009

data source : research vessel

numbers of data:

Quarter

1	2	3	4
36	-	**29**	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
13	**23**	-	-	-	-	**16**	**13**	-	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**65**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**41**	**24**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
39	**10**	**3**	**13**	-	-	-	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Carapace length**
- **mm below**

min length 18.5 *[mm]*

max length 122.5 *[mm]*

male	65
female	-
undefined	-
total numbers of data	65

Lophius budegassa

Geographical distribution of data used for calculating the length-weight relationship

Lophius budegassa

Quarter: **1 - 2**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0203**

b **=** **2.9304**

data collected

time period : **1992 - 2007**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
19	**12**	-	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
1	**5**	**13**	**12**	-	-	-	-	-	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**4**	-	-	**24**	**3**	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**2**	**2**	-	-	-	-	-	-	-	**1**	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	**2**	**21**	-	-	**2**	-	**1**	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
2	**1**	-	-	-	-	**1**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 13.5 *[cm]*

max length 81.5 *[cm]*

male	-
female	1
undefined	30
total numbers of data	31

Lophius piscatorius

Geographical distribution of data used for calculating the length-weight relationship

Lophius piscatorius

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0266**

b **=** **2.8568**

data collected

time period : **1960 - 2007**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
458	**164**	**439**	**49**

Month

1	2	3	4	5	6	7	8	9	10	11	12
99	**311**	**48**	**24**	**37**	**103**	**241**	**190**	**8**	-	**49**	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**1036**	-	**14**	**50**	**10**	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**808**	**227**	**1**	-	-	**13**	**1**	-	**1**	**1**	-	**2**	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
4	**8**	**34**	-	**7**	**3**	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
531	**115**	**287**	**38**	**1**	**8**	**55**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	7.5 *[cm]*
max length	120.5 *[cm]*

male	117
female	44
undefined	949
total numbers of data	1110

Lumpenus lampretaeformis

Geographical distribution of data used for calculating the length-weight relationship

Lumpenus lampretaeformis

Quarter: **1 - 3**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0063**

b **=** **2.4477**

data collected

time period : **1994 - 2009**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
24	**5**	**47**	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
11	**13**	-	-	**2**	**3**	**31**	**15**	**1**	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**76**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**20**	**56**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
16	**3**	**4**	-	-	**2**	**51**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **mm below, cm below**

min length 5.35 *[cm]*

max length 35.5 *[cm]*

male	-
female	-
undefined	76
total numbers of data	76

Melanogrammus aeglefinus

Geographical distribution of data used for calculating the length-weight relationship

Melanogrammus aeglefinus

Quarter: **1 - 3**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.005**

b **=** **3.1761**

data collected

time period : **1995 - 2007**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
11461	**161**	**5148**	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
4907	**6417**	**137**	**55**	**61**	**45**	**2439**	**2314**	**395**	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	**1**	-	**16596**	-	**31**	**141**	**1**	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	**1**	-	-	-	-	-	**12033**	**4563**	-	-	-	**31**	-	-	**1**	-	-	**1**	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
110	**19**	**10**	-	**1**	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
6614	**3070**	**4178**	**1145**	-	**207**	**1382**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	6.5 *[cm]*
max length	72.5 *[cm]*

male	6850
female	6944
undefined	2976
total numbers of data	16770

Melanogrammus aeglefinus ♀

Geographical distribution of data used for calculating the length-weight relationship

Melanogrammus aeglefinus ♀ *Quarter:* 1 - 4

(female)

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0047**

b **=** **3.1937**

data collected

time period : **1994 - 2009**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
6949	**358**	**1398**	**30**

Month

1	2	3	4	5	6	7	8	9	10	11	12
2813	**3752**	**384**	**9**	**300**	**49**	**560**	**658**	**180**	-	**30**	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**8640**	-	**16**	**79**	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**5782**	**2858**	-	-	-	**16**	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
78	-	**1**	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
3335	**2069**	**2076**	**374**	-	**73**	**713**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	10.5 *[cm]*	**male**	-
max length	72.5 *[cm]*	**female**	8735
		undefined	-
		total numbers of data	8735

Melanogrammus aeglefinus ♂

Geographical distribution of data used for calculating the length-weight relationship

Melanogrammus aeglefinus ♂ *Quarter:* 1 - 4

(male)

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0053**

b **=** **3.1517**

data collected

time period : **1994 - 2009**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
6599	**362**	**1505**	**33**

Month

1	2	3	4	5	6	7	8	9	10	11	12
2859	**3481**	**259**	**11**	**293**	**58**	**662**	**639**	**204**	-	**31**	**2**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**8462**	-	**13**	**24**	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**5538**	**2924**	-	-	-	**13**	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
21	-	**3**	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
3093	**2187**	**2069**	**362**	-	**53**	**698**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	10.5 *[cm]*	**male**	8499
max length	69.5 *[cm]*	**female**	-
		undefined	-
		total numbers of data	8499

Melanogrammus aeglefinus *Quarter 1*

Geographical distribution of data used for calculating the length-weight relationship

Melanogrammus aeglefinus

Quarter: **1**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0046**

b **=** **3.1932**

data collected

time period : **1995 - 2007**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
11461	-	-	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
4907	**6417**	**137**	-	-	-	-	-	-	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	**1**	-	**11324**	-	**31**	**104**	**1**	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	**1**	-	-	-	-	-	**8028**	**3296**	-	-	-	**31**	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
100	-	**4**	-	**1**	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
4366	**2839**	**3049**	-	-	**5**	**1065**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	7.5 *[cm]*
max length	72.5 *[cm]*

male	5501
female	5729
undefined	231
total numbers of data	11461

Melanogrammus aeglefinus *January*

Geographical distribution of data used for calculating the length-weight relationship

Melanogrammus aeglefinus *January*

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* =** **0.0047**

***b* =** **3.1862**

data collected

time period : 1995 - 2007

data source : research vessel

numbers of data:

Quarter

1	2	3	4
4907	-	-	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
4907	-	-	-	-	-	-	-	-	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**4907**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**3358**	**1549**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
2293	**881**	**822**	-	-	**3**	**908**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 10.5 *[cm]*

max length 72.5 *[cm]*

male	2400
female	2432
undefined	75
total numbers of data	4907

Melanogrammus aeglefinus *February*

Geographical distribution of data used for calculating the length-weight relationship

Melanogrammus aeglefinus — *February*

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0045**

b **=** **3.1955**

data collected

time period : **1995 - 2007**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
6417	-	-	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
-	**6417**	-	-	-	-	-	-	-	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**6417**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**4670**	**1747**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
2073	**1958**	**2227**	-	-	**2**	**157**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	7.5 *[cm]*
max length	69.5 *[cm]*

male	3067
female	3203
undefined	147
total numbers of data	6417

Melanogrammus aeglefinus *March*

Geographical distribution of data used for calculating the length-weight relationship

Melanogrammus aeglefinus *March*

$Tw_{[g]} = a * L_{[cm]}^{b}$

a = 0.0034

b = 3.3003

data collected

time period : 1995 - 2004

data source : research vessel

numbers of data:

Quarter

1	2	3	4
137	-	-	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
-	-	**137**	-	-	-	-	-	-	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	**1**	-	-	-	**31**	**104**	**1**	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	**1**	-	-	-	-	-	-	-	-	-	-	**31**	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
100	-	**4**	-	**1**	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
-	-	-	-	-	-	-	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	15.5 *[cm]*
max length	70.5 *[cm]*

male	34
female	94
undefined	9
total numbers of data	137

Melanogrammus aeglefinus *Quarter 2*

Geographical distribution of data used for calculating the length-weight relationship

Melanogrammus aeglefinus **Quarter: 2**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* = 0.0083**

***b* = 3.0284**

data collected

time period : 1995 - 2007

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
-	**161**	-	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	**55**	**61**	**45**	-	-	-	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**124**	-	-	**37**	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**14**	**110**	-	-	-	-	-	-	**1**	-	-	**1**	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
10	**19**	**6**	-	-	-	-	-	-	-	-

Roundfisharea								
1	2	3	4	5	6	7	8	9
13	**29**	-	**13**	-	**33**	**36**	-	-

NAFO								
1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 7.5 *[cm]*

max length 70.5 *[cm]*

male	51
female	50
undefined	60
total numbers of data	161

Melanogrammus aeglefinus *April*

Geographical distribution of data used for calculating the length-weight relationship

Melanogrammus aeglefinus *April*

$Tw_{[g]} = a * L_{[cm]}^{b}$

a = 0.0048

b = 3.1779

data collected

time period : 1995 - 2007

data source : research vessel

numbers of data:

Quarter

1	2	3	4
-	**55**	-	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	**55**	-	-	-	-	-	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**18**	-	-	**37**	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	-	**18**	-	-	-	-	-	-	**1**	-	-	**1**	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
10	**19**	**6**	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
-	**7**	-	**11**	-	-	-	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 17.5 *[cm]*

max length 70.5 *[cm]*

male	11
female	10
undefined	34
total numbers of data	55

Melanogrammus aeglefinus *May*

Geographical distribution of data used for calculating the length-weight relationship

Melanogrammus aeglefinus *May*

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* =** **0.0143**

***b* =** **2.8509**

data collected

time period : 1995 - 2006

data source : research vessel

numbers of data:

Quarter

1	2	3	4
-	**61**	-	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	**61**	-	-	-	-	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**61**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**13**	**48**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
13	-	-	**2**	-	**13**	**33**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 14.5 *[cm]*

max length 58.5 *[cm]*

male	22
female	27
undefined	12
total numbers of data	61

Melanogrammus aeglefinus *June*

Geographical distribution of data used for calculating the length-weight relationship

Melanogrammus aeglefinus *June*

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **= 0.0092**

b **= 3.008**

data collected

time period : 1995 - 2000
data source : research vessel

numbers of data:

Quarter			
1	2	3	4
-	**45**	-	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	-	**45**	-	-	-	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**45**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**1**	**44**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea								
1	2	3	4	5	6	7	8	9
-	**22**	-	-	-	**20**	**3**	-	-

NAFO								
1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	7.5 *[cm]*
max length	45.5 *[cm]*

male	18
female	13
undefined	14
total numbers of data	45

Melanogrammus aeglefinus *Quarter 3*

Geographical distribution of data used for calculating the length-weight relationship

Melanogrammus aeglefinus

Quarter: **3**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0065**

b **=** **3.1083**

data collected

time period : **1995 - 2007**

data source : **research vessel**

numbers of data:

Quarter			
1	2	3	4
-	-	**5148**	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	-	-	**2439**	**2314**	**395**	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**5148**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**3991**	**1157**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea								
1	2	3	4	5	6	7	8	9
2235	**202**	**1129**	**1132**	-	**169**	**281**	-	-

NAFO								
1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	6.5 *[cm]*
max length	66.5 *[cm]*

male	1298
female	1165
undefined	2685
total numbers of data	5148

Melanogrammus aeglefinus *July*

Geographical distribution of data used for calculating the length-weight relationship

Melanogrammus aeglefinus *July*

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* =** **0.0063**

***b* =** **3.1205**

data collected

time period : **1995 - 2007**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
-	-	**2439**	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	-	-	**2439**	-	-	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**2439**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**2151**	**288**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
1909	**74**	**189**	**139**	-	**17**	**111**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	6.5 *[cm]*
max length	66.5 *[cm]*

male	605
female	501
undefined	1333
total numbers of data	2439

Melanogrammus aeglefinus *August*

Geographical distribution of data used for calculating the length-weight relationship

Melanogrammus aeglefinus *August*

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0068**

b **=** **3.0956**

data collected

time period : **1995 - 2007**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
-	-	**2314**	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	-	-	-	**2314**	-	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**2314**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**1723**	**591**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
326	**88**	**823**	**872**	-	**148**	**57**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 6.5 *[cm]*

max length 54.5 *[cm]*

male	485
female	484
undefined	1345
total numbers of data	2314

Melanogrammus aeglefinus *September*

Geographical distribution of data used for calculating the length-weight relationship

Melanogrammus aeglefinus *September*

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* =** **0.0065**

***b* =** **3.0997**

data collected

time period : 1997 - 1997

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
-	-	**395**	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	-	-	-	-	**395**	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**395**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**117**	**278**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea								
1	2	3	4	5	6	7	8	9
-	**40**	**117**	**121**	-	**4**	**113**	-	-

NAFO								
1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 18.5 *[cm]*

max length 56.5 *[cm]*

male	208
female	180
undefined	7
total numbers of data	395

Merlangius merlangus

Geographical distribution of data used for calculating the length-weight relationship

Merlangius merlangus

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0061**

b **=** **3.0671**

data collected

time period : **1997 - 2007**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
8862	**412**	**5473**	**133**

Month

1	2	3	4	5	6	7	8	9	10	11	12
4373	**4446**	**43**	**184**	**216**	**12**	**1909**	**3006**	**558**	**13**	**103**	**17**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**14859**	-	**20**	**1**	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**6335**	**8517**	**7**	-	-	**20**	-	-	**1**	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
3525	**2731**	**2655**	**676**	**138**	**3733**	**1401**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 3.5 *[cm]*

max length 91.5 *[cm]*

male	6574
female	6692
undefined	1614
total numbers of data	14880

Merlangius merlangus ♀

Geographical distribution of data used for calculating the length-weight relationship

Merlangius merlangus ♀ **Quarter: 1 - 4**

(female)

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* = 0.0045**

***b* = 3.162**

data collected

time period : 1994 - 2009

data source : research vessel

numbers of data:

Quarter

1	2	3	4
6148	**522**	**2654**	**111**

Month

1	2	3	4	5	6	7	8	9	10	11	12
2791	**3103**	**254**	**94**	**346**	**82**	**975**	**1461**	**218**	-	**85**	**26**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**9428**	-	**6**	-	**1**	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**4631**	**4797**	-	-	-	**6**	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	**1**	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
2638	**1929**	**1865**	**409**	**183**	**1666**	**738**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 7.5 *[cm]*

max length 53.5 *[cm]*

male	-
female	9435
undefined	-
total numbers of data	9435

Merlangius merlangus ♂

Geographical distribution of data used for calculating the length-weight relationship

Merlangius merlangus ♂ **Quarter: 1 - 4**

(male)

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* = 0.0057**

***b* = 3.0863**

data collected

time period : 1994 - 2009

data source : research vessel

numbers of data:

Quarter

1	2	3	4
5710	**590**	**2869**	**146**

Month

1	2	3	4	5	6	7	8	9	10	11	12
2887	**2668**	**155**	**90**	**388**	**112**	**1119**	**1487**	**263**	-	**113**	**33**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**9303**	-	**12**	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**3957**	**5346**	-	-	-	**12**	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
2197	**1871**	**1629**	**423**	**113**	**2210**	**860**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 7.5 *[cm]*

max length 47.5 *[cm]*

male	9315
female	-
undefined	-
total numbers of data	9315

Merlangius merlangus *Quarter 1*

Geographical distribution of data used for calculating the length-weight relationship

Merlangius merlangus

Quarter: **1**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0042**

b **=** **3.1775**

data collected

time period : **1997 - 2007**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
8862	-	-	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
4373	**4446**	**43**	-	-	-	-	-	-	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**8841**	-	**20**	**1**	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**5298**	**3543**	-	-	-	**20**	-	-	**1**	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
2956	**2063**	**2226**	-	-	**1121**	**475**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 6.5 *[cm]*

max length 53.5 *[cm]*

male	4018
female	4288
undefined	556
total numbers of data	8862

Merlangius merlangus *January*

Geographical distribution of data used for calculating the length-weight relationship

Merlangius merlangus — *January*

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **= 0.0049**

b **= 3.1319**

data collected

time period : 1998 - 2009

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
5199	-	-	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
5199	-	-	-	-	-	-	-	-	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	5199	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	2572	2627	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea									NAFO								
1	2	3	4	5	6	7	8	9	1A	1B	1C	1D	1E	1F	2G	2H	2J
1549	1213	923	-	-	1182	332	-	-	-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	5.5 *[cm]*	**male**	2566
max length	52.5 *[cm]*	**female**	2371
		undefined	262
		total numbers of data	5199

Merlangius merlangus *February*

Geographical distribution of data used for calculating the length-weight relationship

Merlangius merlangus — *February*

$Tw_{[g]} = a * L_{[cm]}^{b}$

a = 0.0041

b = 3.1868

data collected

time period : 1998 - 2009

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
4895	-	-	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
-	4895	-	-	-	-	-	-	-	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	2	4893	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	2	-	3378	1515	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea									NAFO								
1	2	3	4	5	6	7	8	9	1A	1B	1C	1D	1E	1F	2G	2H	2J
1764	1166	1575	-	-	266	122	-	-	-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	6.5 *[cm]*
max length	53.5 *[cm]*

male	2127
female	2428
undefined	339
total numbers of data	4895

Merlangius merlangus *Quarter 2*

Geographical distribution of data used for calculating the length-weight relationship

Merlangius merlangus — *Quarter* 2

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **= 0.0111**

b **= 0.8596**

data collected

time period : 1997 - 2006

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
-	**412**	-	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	**184**	**216**	**12**	-	-	-	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**412**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**2**	**410**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea								
1	2	3	4	5	6	7	8	9
-	**91**	-	**151**	-	**167**	**3**	-	-

NAFO								
1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	3.5 *[cm]*
max length	36.5 *[cm]*

male	116
female	129
undefined	167
total numbers of data	412

Merlangius merlangus *Quarter 3*

Geographical distribution of data used for calculating the length-weight relationship

Merlangius merlangus

Quarter: **3**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0085**

b **=** **2.9661**

data collected

time period : **1997 - 2007**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
-	-	**5473**	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	-	-	**1909**	**3006**	**558**	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**5473**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**1035**	**4431**	**7**	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
569	**511**	**429**	**525**	**138**	**2378**	**923**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	4.5 *[cm]*
max length	91.5 *[cm]*

male	2385
female	2232
undefined	856
total numbers of data	5473

Merlangius merlangus *July*

Geographical distribution of data used for calculating the length-weight relationship

Merlangius merlangus *July*

$Tw_{[g]} = a * L_{[cm]}^{b}$

a = 0.008

b = 2.9831

data collected

time period : 1998 - 2009

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
-	-	2480	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	-	-	2480	-	-	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	2480	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	586	1748	146	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea									NAFO								
1	2	3	4	5	6	7	8	9	1A	1B	1C	1D	1E	1F	2G	2H	2J
422	153	164	136	146	898	561	-	-	-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 4.5 *[cm]*

max length 86.5 *[cm]*

male	1119
female	950
undefined	411
total numbers of data	2480

Merlangius merlangus *August*

Geographical distribution of data used for calculating the length-weight relationship

Merlangius merlangus *August*

$Tw_{[g]} = a * L_{[cm]}^{b}$

a = 0.0082

b = 2.978

data collected

time period : 1998 - 2009

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
-	-	**3669**	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	-	-	-	**3669**	-	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**3669**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**365**	**3142**	**162**	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea									NAFO								
1	2	3	4	5	6	7	8	9	1A	1B	1C	1D	1E	1F	2G	2H	2J
169	**489**	**196**	**274**	**162**	**2029**	**350**	-	-	-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	4.5 *[cm]*
max length	91.5 *[cm]*

male	1512
female	1469
undefined	688
total numbers of data	3669

Merlangius merlangus *September*

Geographical distribution of data used for calculating the length-weight relationship

Merlangius merlangus *September*

$Tw_{[g]} = a * L_{[cm]}^{b}$

a = 0.0072

b = 3.0222

data collected

time period : 1997 - 2009

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
-	-	**600**	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	-	-	-	-	**600**	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**600**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**111**	**489**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea								
1	2	3	4	5	6	7	8	9
1	**22**	**110**	**144**	-	**218**	**105**	-	-

NAFO								
1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	7.5 *[cm]*	**male**	264
max length	36.5 *[cm]*	**female**	218
		undefined	118
		total numbers of data	600

Merlangius merlangus *Quarter 4*

Geographical distribution of data used for calculating the length-weight relationship

Merlangius merlangus

Quarter: **4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **= 0.0084**

b **= 2.9664**

data collected

time period : 1997 - 2006

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
-	-	-	**133**

Month											
1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	-	-	-	-	-	**13**	**103**	**17**

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**133**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	-	**133**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea								
1	2	3	4	5	6	7	8	9
-	**66**	-	-	-	**67**	-	-	-

NAFO								
1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	8.5 *[cm]*	**male**	55
max length	34.5 *[cm]*	**female**	43
		undefined	35
		total numbers of data	133

Merluccius merluccius

Geographical distribution of data used for calculating the length-weight relationship

Merluccius merluccius

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.004**

b **=** **3.13**

data collected

time period : **1998 - 2009**

data source : **research vessel, commercial trawler**

numbers of data:

Quarter

1	2	3	4
928	**126**	**614**	**14**

Month

1	2	3	4	5	6	7	8	9	10	11	12
324	**473**	**131**	**7**	**32**	**87**	**324**	**239**	**51**	**3**	**10**	**1**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	**2**	**1670**	-	**1**	**5**	**4**	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	**2**	-	-	-	**1148**	**522**	-	-	-	**1**	-	-	**3**	**1**	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	**1**	-	**3**	-	-	**1**	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
1029	**75**	**104**	**3**	**1**	**114**	**291**	**44**	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	6.5 *[cm]*	**male**	374
max length	113.5 *[cm]*	**female**	284
		undefined	1024
		total numbers of data	1682

Merluccius merluccius ♀

Geographical distribution of data used for calculating the length-weight relationship

Merluccius merluccius ♀

Quarter: 1 ; 3

(female)

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* = 0.0045**

***b* = 3.0912**

data collected

time period : 2007 - 2009

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
250	-	**34**	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
76	**174**	-	-	-	-	**32**	**2**	-	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**284**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**267**	**17**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea								
1	2	3	4	5	6	7	8	9
249	**11**	**19**	-	-	-	**5**	-	-

NAFO								
1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 12.5 *[cm]*

max length 93.5 *[cm]*

male	-
female	284
undefined	-
total numbers of data	284

Merluccius merluccius ♂

Geographical distribution of data used for calculating the length-weight relationship

Merluccius merluccius ♂

Quarter: 1 ; 3

(male)

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* = 0.0047**

***b* = 3.0774**

data collected

time period : 2003 - 2009

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
303	-	**71**	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
94	**209**	-	-	-	-	**56**	**15**	-	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**374**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**323**	**51**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea									NAFO								
1	2	3	4	5	6	7	8	9	1A	1B	1C	1D	1E	1F	2G	2H	2J
302	**30**	**25**	-	-	**8**	**9**	-	-	-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	7.5 *[cm]*
max length	70.5 *[cm]*

male	374
female	-
undefined	-
total numbers of data	374

Microchirus variegatus

Geographical distribution of data used for calculating the length-weight relationship

Microchirus variegatus

Quarter: **1 - 3**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.011**

b **=** **2.9899**

data collected

time period : **1995 - 2009**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
27	**7**	**2**	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
10	**11**	**6**	**6**	-	**1**	**1**	**1**	-	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**24**	-	-	**8**	**4**	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**24**	-	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	**2**	**6**	-	**2**	-	-	**2**	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
15	-	**9**	-	-	-	-	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **1/2 cm below, cm below**

min length 10.25 *[cm]*

max length 19.5 *[cm]*

male	-
female	-
undefined	36
total numbers of data	36

Micromesistius poutassou

Geographical distribution of data used for calculating the length-weight relationship

Micromesistius poutassou

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0073**

b **=** **2.8926**

data collected

time period : **1998 - 2009**

data source : **research vessel, commercial trawler**

numbers of data:

Quarter

1	2	3	4
9873	**2196**	**5547**	**180**

Month

1	2	3	4	5	6	7	8	9	10	11	12
117	**1270**	**8486**	**1770**	**426**	-	**4**	**9**	**5534**	**180**	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	**5534**	-	**198**	**773**	**8016**	**3275**	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	**5534**	-	-	-	-	-	**182**	**16**	-	-	**773**	**5289**	**2727**	-	**2**	**2398**	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
1	**181**	**462**	**231**	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
155	-	**43**	-	-	-	-	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 10.5 *[cm]*

max length 55.5 *[cm]*

male	2760
female	2854
undefined	12182
total numbers of data	17796

Micromesistius poutassou ♀

Geographical distribution of data used for calculating the length-weight relationship

Micromesistius poutassou ♀ *Quarter:* 1 - 4

(female)

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0024**

b **=** **3.2288**

data collected

time period : **2003 - 2008**

data source : **research vessel, commercial trawler**

numbers of data:

Quarter			
1	2	3	4
2498	**553**	**276**	**22**

Month											
1	2	3	4	5	6	7	8	9	10	11	12
18	**636**	**1844**	**377**	**176**	-	**1**	-	**275**	**22**	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	**275**	-	**39**	**267**	**1606**	**1162**	-	-	-	-	-

Division																		
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	**275**	-	-	-	-	-	**29**	**10**	-	-	**267**	**994**	**612**	-	-	**685**	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	**22**	**121**	**334**	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea									NAFO								
1	2	3	4	5	6	7	8	9	1A	1B	1C	1D	1E	1F	2G	2H	2J
28	-	**11**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 14.5 *[cm]*

max length 42.5 *[cm]*

male	-
female	3349
undefined	-
total numbers of data	3349

Micromesistius poutassou ♂

Geographical distribution of data used for calculating the length-weight relationship

Micromesistius poutassou ♂ *Quarter:* 1 - 4

(male)

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0029**

b **=** **3.1651**

data collected

time period : **2003 - 2009**

data source : **research vessel, commercial trawler**

numbers of data:

Quarter

1	2	3	4
2383	**492**	**161**	**30**

Month

1	2	3	4	5	6	7	8	9	10	11	12
26	**400**	**1957**	**400**	**92**	-	-	-	**161**	**30**	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	**161**	-	**50**	**160**	**1777**	**918**	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	**161**	-	-	-	-	-	**45**	**5**	-	-	**160**	**1039**	**738**	-	-	**588**	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	**30**	**70**	**230**	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
40	-	**10**	-	-	-	-	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 14.5 *[cm]*

max length 43.5 *[cm]*

male	3066
female	-
undefined	-
total numbers of data	3066

Microstomus kitt

Geographical distribution of data used for calculating the length-weight relationship

Microstomus kitt

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0106**

b **=** **2.9904**

data collected

time period : **1997 - 2008**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
1274	**57**	**1002**	**65**

Month

1	2	3	4	5	6	7	8	9	10	11	12
661	**608**	**5**	**6**	**34**	**17**	**429**	**546**	**27**	**4**	**32**	**29**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**2394**	-	-	**4**	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**1083**	**1299**	**12**	-	-	-	-	-	-	-	-	**1**	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	**3**	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
649	**291**	**483**	**46**	**13**	**663**	**249**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **1/2 cm below, cm below**

min length 3.25 *[cm]*

max length 45.5 *[cm]*

male	674
female	817
undefined	907
total numbers of data	2398

Microstomus kitt ♀

Geographical distribution of data used for calculating the length-weight relationship

Microstomus kitt ♀

(female)

Quarter: 1 ; 3

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* = 0.0085**

***b* = 3.0626**

data collected

time period : 2003 - 2008

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
495	-	**394**	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
226	**269**	-	-	-	-	**134**	**260**	-	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**889**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**509**	**380**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea								
1	2	3	4	5	6	7	8	9
300	**107**	**244**	**15**	-	**162**	**61**	-	-

NAFO								
1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 13.5 *[cm]*

max length 40.5 *[cm]*

male	-
female	889
undefined	-
total numbers of data	889

Microstomus kitt ♂

Geographical distribution of data used for calculating the length-weight relationship

Microstomus kitt ♂

Quarter: 1 ; 3

(male)

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* = 0.0107**

***b* = 2.9673**

data collected

time period : 2003 - 2008

data source : research vessel

numbers of data:

Quarter

1	2	3	4
391	-	**338**	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
218	**173**	-	-	-	-	**115**	**223**	-	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**729**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**394**	**335**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
211	**140**	**206**	**8**	-	**100**	**64**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 12.5 *[cm]*

max length 38.5 *[cm]*

male	729
female	-
undefined	-
total numbers of data	729

Molva molva

Geographical distribution of data used for calculating the length-weight relationship

Molva molva

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0031**

b **=** **3.1396**

data collected

time period : **1991 - 2006**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
221	**74**	**74**	**19**

Month

1	2	3	4	5	6	7	8	9	10	11	12
38	**137**	**46**	**12**	**27**	**35**	**45**	**28**	**1**	-	**19**	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**351**	-	**7**	**25**	**5**	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**296**	**52**	**3**	-	-	**7**	-	-	**6**	-	-	**1**	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
6	**5**	**7**	-	**3**	-	-	**2**	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
226	**20**	**74**	**5**	**4**	**4**	**18**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	18.5 *[cm]*	**male**	34
max length	125.5 *[cm]*	**female**	15
		undefined	339
		total numbers of data	388

Mullus surmuletus

Geographical distribution of data used for calculating the length-weight relationship

Mullus surmuletus

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0149**

b **=** **2.9185**

data collected

time period : **1993 - 2008**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
123	**32**	**183**	**42**

Month

1	2	3	4	5	6	7	8	9	10	11	12
68	**51**	**4**	**7**	**5**	**20**	**105**	**75**	**3**	**7**	**20**	**15**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**369**	-	-	**2**	**9**	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**61**	**290**	**18**	-	-	-	-	-	-	-	-	**1**	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	**1**	-	**4**	**2**	-	**3**	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
23	**22**	**44**	**4**	**25**	**239**	**12**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	5.5 *[cm]*
max length	38.5 *[cm]*

male	10
female	4
undefined	366
total numbers of data	380

Mustelus asterias

Geographical distribution of data used for calculating the length-weight relationship

Mustelus asterias

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0016**

b **=** **3.1753**

data collected

time period : **1984 - 2008**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
134	**26**	**11**	**7**

Month

1	2	3	4	5	6	7	8	9	10	11	12
79	**54**	**1**	-	**13**	**13**	**7**	**4**	-	-	**7**	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**177**	-	-	-	**1**	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**103**	**74**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	**1**	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
78	**44**	**30**	**11**	-	**14**	-	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	42.5 *[cm]*	**male**	75
max length	100.5 *[cm]*	**female**	94
		undefined	9
		total numbers of data	178

Mustelus asterias ♀

Geographical distribution of data used for calculating the length-weight relationship

Mustelus asterias ♀

Quarter: 1 - 4

(female)

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* = 0.0011**

***b* = 3.2651**

data collected

time period : 1984 - 2008

data source : research vessel

numbers of data:

Quarter

1	2	3	4
74	**15**	**5**	**1**

Month

1	2	3	4	5	6	7	8	9	10	11	12
44	**30**	-	-	**7**	**8**	**2**	**3**	-	-	**1**	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**95**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**58**	**37**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
46	**23**	**14**	**7**	-	**5**	-	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	48.5 *[cm]*	**male**	-
max length	98.5 *[cm]*	**female**	95
		undefined	-
		total numbers of data	95

Mustelus asterias ♂

Geographical distribution of data used for calculating the length-weight relationship

Mustelus asterias ♂

(male)

Quarter: 1 - 4

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* = 0.0023**

***b* = 3.0919**

data collected

time period : 1992 - 2008

data source : research vessel

numbers of data:

Quarter

1	2	3	4
57	**9**	**6**	**3**

Month

1	2	3	4	5	6	7	8	9	10	11	12
33	**24**	-	-	**4**	**5**	**5**	**1**	-	-	**3**	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**75**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**42**	**33**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
32	**20**	**13**	**3**	-	**7**	-	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 42.5 *[cm]*

max length 100.5 *[cm]*

male	75
female	-
undefined	-
total numbers of data	75

Mustelus mustelus

Geographical distribution of data used for calculating the length-weight relationship

Mustelus mustelus

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0033**

b **=** **3.0231**

data collected

time period : **1976 - 2008**

data source : **research vessel**

numbers of data:

Quarter			
1	2	3	4
20	**3**	**11**	**3**

Month											
1	2	3	4	5	6	7	8	9	10	11	12
8	**12**	-	**2**	-	**1**	**7**	**4**	-	-	-	**3**

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**32**	-	-	**4**	**1**	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**11**	**17**	**4**	-	-	-	-	-	-	-	**1**	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	**2**	**1**	-	**1**	-	-	-	-	-	-

Roundfisharea								
1	2	3	4	5	6	7	8	9
11	**4**	**3**	-	**3**	**11**	-	-	-

NAFO								
1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	25.5 *[cm]*
max length	113.5 *[cm]*

male	12
female	15
undefined	10
total numbers of data	37

Myoxocephalus scorpius

Geographical distribution of data used for calculating the length-weight relationship

Myoxocephalus scorpius

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0114**

b **=** **3.1036**

data collected

time period : **1995 - 2008**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
360	**205**	**248**	**125**

Month

1	2	3	4	5	6	7	8	9	10	11	12
299	**56**	**5**	**29**	**158**	**18**	**25**	**136**	**87**	**36**	**37**	**52**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**938**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**29**	**903**	**6**	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
-	**4**	**30**	-	-	**894**	**10**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 2.5 *[cm]*

max length 33.5 *[cm]*

male	9
female	16
undefined	913
total numbers of data	938

Myxine glutinosa

Geographical distribution of data used for calculating the length-weight relationship

Myxine glutinosa

Quarter: **1 - 3**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0022**

b **=** **2.8357**

data collected

time period : **1994 - 2009**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
35	**11**	**82**	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
11	**23**	**1**	-	**8**	**3**	**49**	**29**	**4**	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**128**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**97**	**31**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
67	**5**	**23**	**32**	-	-	**1**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 8.5 *[cm]*

max length 41.5 *[cm]*

male	-
female	-
undefined	128
total numbers of data	128

Nephrops norvegicus

Geographical distribution of data used for calculating the length-weight relationship

Nephrops norvegicus

Quarter: **1 ; 3**

$$Tw_{[g]} = a * L_{[mm]}^{\,b}$$

a **= 0.00042**

b **= 3.11965**

data collected

time period : 2004 - 2009

data source : research vessel

numbers of data:

Quarter

1	2	3	4
114	-	**1220**	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
81	**33**	-	-	-	-	**40**	**1040**	**140**	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**1334**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**111**	**1223**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
88	**6**	**23**	-	-	**1144**	**73**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Carapace length**
- **mm below**

min length 19.5 *[mm]*

max length 67.5 *[mm]*

male	239
female	201
undefined	894
total numbers of data	1334

Nephrops norvegicus ♀

Geographical distribution of data used for calculating the length-weight relationship

Nephrops norvegicus ♀ *Quarter:* 1 ; 3

(female)

$$Tw_{[g]} = a * L_{[mm]}^{\,b}$$

***a* =** **0.00083**

***b* =** **2.93399**

data collected

time period : **2005 - 2009**

data source : **research vessel**

numbers of data:

Quarter			
1	2	3	4
26	-	**175**	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
18	**8**	-	-	-	-	**14**	**137**	**24**	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**201**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**24**	**177**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea									NAFO								
1	2	3	4	5	6	7	8	9	1A	1B	1C	1D	1E	1F	2G	2H	2J
18	**2**	**6**	-	-	**174**	**1**	-	-	-	-	-	-	-	-	-	-	-

Method of Measurement

- **Carapace length**
- **mm below**

min length	22.5 *[mm]*	**male**	-
max length	62.5 *[mm]*	**female**	201
		undefined	-
		total numbers of data	201

Nephrops norvegicus ♂

Geographical distribution of data used for calculating the length-weight relationship

Nephrops norvegicus ♂ *Quarter:* 1 ; 3

(male)

$$Tw_{[g]} = a * L_{[mm]}^{\,b}$$

a **= 0.00053**

b **= 3.0791**

data collected

time period : 2004 - 2009

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
78	-	**161**	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
59	**19**	-	-	-	-	**19**	**142**	-	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**239**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**78**	**161**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea								
1	2	3	4	5	6	7	8	9
62	**4**	**16**	-	-	**153**	**4**	-	-

NAFO								
1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Carapace length**
- **mm below**

min length 20.5 *[mm]*

max length 67.5 *[mm]*

male	239
female	-
undefined	-
total numbers of data	239

Osmerus eperlanus

Geographical distribution of data used for calculating the length-weight relationship

Osmerus eperlanus

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0094**

b **=** **2.8535**

data collected

time period : **1994 - 2007**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
81	**51**	**86**	**46**

Month

1	2	3	4	5	6	7	8	9	10	11	12
76	**1**	**4**	**18**	**32**	**1**	**4**	**2**	**80**	**14**	**18**	**14**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**264**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	-	**264**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
-	-	-	-	-	**264**	-	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **1/2 cm below, cm below**

min length 5.25 *[cm]*

max length 25.5 *[cm]*

male	-
female	-
undefined	264
total numbers of data	264

Platichthys flesus

Geographical distribution of data used for calculating the length-weight relationship

Platichthys flesus

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0098**

b **=** **3.0235**

data collected

time period : **1997 - 2008**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
288	**183**	**198**	**86**

Month

1	2	3	4	5	6	7	8	9	10	11	12
231	**54**	**3**	**34**	**146**	**3**	**44**	**55**	**99**	**29**	**23**	**34**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**755**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	-	**754**	**1**	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
-	**1**	-	**1**	-	**736**	**17**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	6.5 *[cm]*	**male**	15
max length	42.5 *[cm]*	**female**	14
		undefined	726
		total numbers of data	755

Pleuronectes platessa

Geographical distribution of data used for calculating the length-weight relationship

Pleuronectes platessa

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0103**

b **=** **2.9745**

data collected

time period : **1997 - 2008**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
1166	**407**	**1360**	**37**

Month

1	2	3	4	5	6	7	8	9	10	11	12
712	**453**	**1**	**44**	**354**	**9**	**625**	**691**	**44**	**7**	**14**	**16**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**2969**	-	-	**1**	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**797**	**2146**	**26**	-	-	-	-	-	**1**	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
298	**323**	**504**	**92**	**28**	**1515**	**209**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 3.5 *[cm]*

max length 60.5 *[cm]*

male	1185
female	1136
undefined	649
total numbers of data	2970

Pleuronectes platessa ♀

Geographical distribution of data used for calculating the length-weight relationship

Pleuronectes platessa ♀

Quarter: 1 - 4

(female)

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* = 0.0059**

***b* = 3.1539**

data collected

time period : 1999 - 2009

data source : research vessel, commercial trawler

numbers of data:

Quarter

1	2	3	4
1574	**3793**	**2883**	**1406**

Month

1	2	3	4	5	6	7	8	9	10	11	12
992	**233**	**349**	**1835**	**326**	**1632**	**1340**	**965**	**578**	**689**	**352**	**365**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**9656**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**245**	**8085**	**1326**	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
90	**269**	**155**	**27**	**418**	**7805**	**892**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 9.5 *[cm]*

max length 58.5 *[cm]*

male	-
female	9656
undefined	-
total numbers of data	9656

Pleuronectes platessa ♂

Geographical distribution of data used for calculating the length-weight relationship

Pleuronectes platessa ♂

Quarter: 1 - 4

(male)

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* = 0.0077**

***b* = 3.0623**

data collected

time period : 1998 - 2009

data source : research vessel, commercial trawler

numbers of data:

Quarter

1	2	3	4
1402	**1929**	**1292**	**794**

Month

1	2	3	4	5	6	7	8	9	10	11	12
823	**359**	**220**	**1101**	**132**	**696**	**569**	**525**	**198**	**410**	**216**	**168**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**5417**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**456**	**4068**	**893**	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
123	**77**	**339**	**74**	**80**	**4280**	**444**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 9.5 *[cm]*

max length 53.5 *[cm]*

male	5417
female	-
undefined	-
total numbers of data	5417

Pollachius pollachius

Geographical distribution of data used for calculating the length-weight relationship

Pollachius pollachius

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0107**

b **=** **2.966**

data collected

time period : **1959 - 2008**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
90	**17**	**35**	**41**

Month

1	2	3	4	5	6	7	8	9	10	11	12
44	**33**	**13**	**9**	**2**	**6**	**23**	**5**	**7**	-	**37**	**4**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**154**	-	**12**	**16**	**1**	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**119**	**33**	**2**	-	-	**12**	-	-	**4**	-	-	**2**	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
1	**1**	**8**	-	**1**	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
108	**6**	**2**	**1**	**1**	**16**	**19**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	8.5 *[cm]*
max length	92.5 *[cm]*

male	18
female	27
undefined	138
total numbers of data	183

Pollachius virens

Geographical distribution of data used for calculating the length-weight relationship

Pollachius virens

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0055**

b **=** **3.1071**

data collected

time period : **1994 - 2008**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
3809	**215**	**642**	**11**

Month

1	2	3	4	5	6	7	8	9	10	11	12
1628	**2071**	**110**	**3**	**187**	**25**	**508**	**132**	**2**	-	**6**	**5**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	**2**	-	**4666**	-	**1**	**8**	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	**2**	-	-	-	-	-	**4549**	**115**	**2**	-	-	**1**	-	-	**1**	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
2	-	**5**	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
4247	**67**	**89**	**15**	**2**	**17**	**227**	**1**	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	10.5 *[cm]*
max length	116.5 *[cm]*

male	2456
female	1919
undefined	302
total numbers of data	4677

Pollachius virens ♀

Geographical distribution of data used for calculating the length-weight relationship

Pollachius virens ♀

(female)

Quarter: 1 - 3

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* = 0.0043**

***b* = 3.1692**

data collected

time period : 1994 - 2009

data source : research vessel

numbers of data:

Quarter

1	2	3	4
2244	**134**	**240**	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
750	**1450**	**44**	**35**	**95**	**4**	**202**	**38**	-	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**2618**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**2602**	**16**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
2439	**14**	**13**	**1**	-	**1**	**115**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	23.5 *[cm]*
max length	116.5 *[cm]*

male	-
female	2618
undefined	-
total numbers of data	2618

Pollachius virens ♂

Geographical distribution of data used for calculating the length-weight relationship

Pollachius virens ♂

Quarter: 1 - 3

(male)

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* = 0.0049**

***b* = 3.1328**

data collected

time period : 1994 - 2009

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
2779	**115**	**262**	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
876	**1851**	**52**	**21**	**86**	**8**	**219**	**43**	-	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**3156**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**3139**	**17**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea								
1	2	3	4	5	6	7	8	9
3003	**8**	**20**	**2**	-	-	**102**	-	-

NAFO								
1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 14.5 *[cm]*

max length 115.5 *[cm]*

male	3156
female	-
undefined	-
total numbers of data	3156

Pollachius virens *Quarter 1*

Geographical distribution of data used for calculating the length-weight relationship

Pollachius virens

Quarter: **1**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.004**

b **=** **3.1853**

data collected

time period : **1994 - 2008**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
3809	-	-	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
1628	**2071**	**110**	-	-	-	-	-	-	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	**2**	-	**3801**	-	**1**	**5**	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	**2**	-	-	-	-	-	**3770**	**31**	-	-	-	**1**	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
1	-	**4**	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
3534	**25**	**23**	-	-	**6**	**213**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	10.5 *[cm]*
max length	116.5 *[cm]*

male	2105
female	1581
undefined	123
total numbers of data	3809

Pollachius virens *January*

Geographical distribution of data used for calculating the length-weight relationship

Pollachius virens — *January*

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **= 0.0032**

b **= 3.2409**

data collected

time period : 1994 - 2007

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
1628	-	-	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
1628	-	-	-	-	-	-	-	-	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**1628**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**1604**	**24**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea								
1	2	3	4	5	6	7	8	9
1408	**14**	**13**	-	-	**6**	**187**	-	-

NAFO								
1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	16.5 *[cm]*
max length	115.5 *[cm]*

male	852
female	725
undefined	51
total numbers of data	1628

Pollachius virens *February*

Geographical distribution of data used for calculating the length-weight relationship

Pollachius virens — *February*

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **= 0.0044**

b **= 3.1573**

data collected

time period : 1994 - 2008

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
2071	-	-	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
-	2071	-	-	-	-	-	-	-	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	2071	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	2068	3	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea								
1	2	3	4	5	6	7	8	9
2028	7	10	-	-	-	26	-	-

NAFO								
1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	10.5 *[cm]*
max length	116.5 *[cm]*

male	1200
female	812
undefined	59
total numbers of data	2071

Pollachius virens *March*

Geographical distribution of data used for calculating the length-weight relationship

Pollachius virens — *March*

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **= 0.0065**

b **= 3.0596**

data collected

time period : 1994 - 2003

data source : research vessel

numbers of data:

Quarter

1	2	3	4
109	-	-	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
-	-	**109**	-	-	-	-	-	-	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	**2**	-	**101**	-	**1**	**5**	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	**2**	-	-	-	-	-	**97**	**4**	-	-	-	**1**	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
1	-	**4**	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
97	**4**	-	-	-	-	-	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	28.5 *[cm]*
max length	108.5 *[cm]*

male	52
female	44
undefined	13
total numbers of data	109

Pollachius virens *Quarter 2*

Geographical distribution of data used for calculating the length-weight relationship

Pollachius virens

Quarter: **2**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0164**

b **=** **2.8586**

data collected

time period : **1994 - 2007**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
-	**215**	-	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	**3**	**187**	**25**	-	-	-	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**212**	-	-	**3**	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**201**	**11**	-	-	-	-	-	-	**1**	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
1	-	**1**	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
186	**8**	**15**	-	-	-	**3**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	21.5 *[cm]*
max length	106.5 *[cm]*

male	90
female	99
undefined	26
total numbers of data	215

Pollachius virens *May*

Geographical distribution of data used for calculating the length-weight relationship

Pollachius virens *May*

$Tw_{[g]} = a * L_{[cm]}^{b}$

a = 0.0204

b = 2.8079

data collected

time period : 1994 - 1995

data source : research vessel

numbers of data:

Quarter

1	2	3	4
-	**187**	-	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	**187**	-	-	-	-	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**187**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**185**	**2**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
185	**2**	-	-	-	-	-	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 28.5 *[cm]*

max length 106.5 *[cm]*

male	86
female	95
undefined	6
total numbers of data	187

Pollachius virens *Quarter 3*

Geographical distribution of data used for calculating the length-weight relationship

Pollachius virens

Quarter: **3**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0103**

b **=** **2.9632**

data collected

time period : **1994 - 2007**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
-	-	**642**	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	-	-	**508**	**132**	**2**	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**642**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**578**	**62**	**2**	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
527	**33**	**47**	**15**	**2**	**5**	**11**	**1**	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	15.5 *[cm]*
max length	111.5 *[cm]*

male	261
female	239
undefined	142
total numbers of data	642

Pollachius virens *July*

Geographical distribution of data used for calculating the length-weight relationship

Pollachius virens *July*

$Tw_{[g]} = a * L_{[cm]}^{b}$

a = 0.0107

b = 2.9549

data collected

time period : 1994 - 2007

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
-	-	**508**	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	-	-	**508**	-	-	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**508**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**470**	**36**	**2**	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea								
1	2	3	4	5	6	7	8	9
452	**24**	**17**	**3**	**2**	**2**	**6**	**1**	-

NAFO								
1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	16.5 *[cm]*
max length	111.5 *[cm]*

male	219
female	202
undefined	87
total numbers of data	508

Pollachius virens *August*

Geographical distribution of data used for calculating the length-weight relationship

Pollachius virens — *August*

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0105**

b **=** **2.9504**

data collected

time period : 1997 - 2007

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
-	-	**132**	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	-	-	-	**132**	-	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**132**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**108**	**24**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea								
1	2	3	4	5	6	7	8	9
75	**9**	**30**	**12**	-	**3**	**3**	-	-

NAFO								
1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	15.5 *[cm]*
max length	74.5 *[cm]*

male	42
female	37
undefined	53
total numbers of data	132

Pollachius virens *Quarter 4*

Geographical distribution of data used for calculating the length-weight relationship

Pollachius virens

Quarter: **4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0077**

b **=** **3.0455**

data collected

time period : **1996 - 2006**

data source : **research vessel, commercial trawler**

numbers of data:

Quarter

1	2	3	4
-	-	-	**1055**

Month

1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	-	-	-	-	-	**551**	**498**	**6**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	**1043**	**1**	**11**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	**1043**	-	**1**	-	-	-	-	**11**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
-	**1**	**4**	-	-	**6**	-	**1**	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	16.5 *[cm]*	**male**	-
max length	113.5 *[cm]*	**female**	-
		undefined	1055
		total numbers of data	1055

Pollachius virens *October*

Geographical distribution of data used for calculating the length-weight relationship

Pollachius virens — *October*

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0106**

b **=** **2.9637**

data collected

time period : **2002**

data source : **commercial trawler**

numbers of data:

Quarter

1	2	3	4
-	-	-	**551**

Month

1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	-	-	-	-	-	**551**	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	**551**	-	-	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	**551**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
-	-	-	-	-	-	-	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 36.5 *[cm]*

max length 91.5 *[cm]*

male -

female -

undefined 551

total numbers of data 551

Pollachius virens *November*

Geographical distribution of data used for calculating the length-weight relationship

Pollachius virens *November*

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **= 0.0054**

b **= 3.1297**

data collected

time period : 1997 - 2006

data source : research vessel, commercial trawler

numbers of data:

Quarter			
1	2	3	4
-	-	-	**498**

Month											
1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	-	-	-	-	-	-	**498**	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	**492**	-	**6**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	**492**	-	-	-	-	-	-	**6**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea								
1	2	3	4	5	6	7	8	9
-	**1**	**4**	-	-	**1**	-	-	-

NAFO								
1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	32.5 *[cm]*	**male**	-
max length	113.5 *[cm]*	**female**	-
		undefined	498
		total numbers of data	498

Pomatoschistus minutus

Geographical distribution of data used for calculating the length-weight relationship

Pomatoschistus minutus

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.01**

b **=** **2.8976**

data collected

time period : **1998 - 2009**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
286	**26**	**292**	**11**

Month

1	2	3	4	5	6	7	8	9	10	11	12
277	**9**	-	**1**	**25**	-	**74**	**172**	**46**	**4**	**5**	**2**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**615**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**16**	**599**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
9	**6**	**6**	**1**	-	**582**	**11**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **mm below, cm below**

min length 2.5 *[cm]*

max length 9.5 *[cm]*

male	-
female	-
undefined	615
total numbers of data	615

Psetta maxima

Geographical distribution of data used for calculating the length-weight relationship

Psetta maxima

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0128**

b **=** **3.1267**

data collected

time period : **1993 - 2007**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
154	**302**	**364**	**124**

Month

1	2	3	4	5	6	7	8	9	10	11	12
116	**38**	-	**10**	**260**	**32**	**133**	**198**	**33**	**18**	**49**	**57**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**944**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**35**	**903**	**6**	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
17	**36**	**22**	**8**	**1**	**791**	**69**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	4.5 *[cm]*
max length	72.5 *[cm]*

male	75
female	66
undefined	803
total numbers of data	944

Psetta maxima ♀

Geographical distribution of data used for calculating the length-weight relationship

Psetta maxima ♀

(female)

Quarter: 1 - 4

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* = 0.0112**

***b* = 3.1702**

data collected

time period : 1994 - 2008

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
7	**98**	**74**	**5**

Month											
1	2	3	4	5	6	7	8	9	10	11	12
6	**1**	-	**23**	**5**	**70**	**14**	**60**	-	-	-	**5**

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**184**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**3**	**181**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea									NAFO								
1	2	3	4	5	6	7	8	9	1A	1B	1C	1D	1E	1F	2G	2H	2J
2	**2**	**2**	**2**	**1**	**166**	**9**	-	-	-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 22.5 *[cm]*

max length 63.5 *[cm]*

male	-
female	184
undefined	-
total numbers of data	184

Psetta maxima ♂

Geographical distribution of data used for calculating the length-weight relationship

Psetta maxima ♂

Quarter: 1 - 4

(male)

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* = 0.0138**

***b* = 3.0988**

data collected

time period : 1994 - 2009

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
6	**159**	**54**	**2**

Month											
1	2	3	4	5	6	7	8	9	10	11	12
5	**1**	-	**18**	**16**	**125**	**9**	**45**	-	-	**1**	**1**

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**221**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**10**	**211**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea									NAFO								
1	2	3	4	5	6	7	8	9	1A	1B	1C	1D	1E	1F	2G	2H	2J
4	**2**	**6**	-	-	**208**	**1**	-	-	-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 20.5 *[cm]*

max length 56.5 *[cm]*

male	221
female	-
undefined	-
total numbers of data	221

Raja batis

Geographical distribution of data used for calculating the length-weight relationship

Raja batis

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0074**

b **=** **2.9532**

data collected

time period : **1962 - 2007**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
25	**10**	**1**	**1**

Month

1	2	3	4	5	6	7	8	9	10	11	12
6	**16**	**3**	**5**	-	**5**	-	**1**	-	-	**1**	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**25**	-	**5**	**7**	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**18**	**7**	-	-	-	**5**	-	-	**2**	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
1	**1**	**3**	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
10	**1**	**7**	**2**	-	**1**	**4**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	9.5 *[cm]*	**male**	12
max length	210.5 *[cm]*	**female**	20
		undefined	5
		total numbers of data	37

Raja clavata

Geographical distribution of data used for calculating the length-weight relationship

Raja clavata

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **= 0.0081**

b **= 2.976**

data collected

time period : 1959 - 2004
data source : research vessel

numbers of data:

Quarter			
1	2	3	4
37	**10**	**22**	**4**

Month											
1	2	3	4	5	6	7	8	9	10	11	12
8	**28**	**1**	**2**	-	**8**	**19**	**2**	**1**	-	**4**	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**64**	-	**5**	**4**	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**34**	**24**	**6**	-	-	**5**	-	-	**2**	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	**2**	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea									NAFO								
1	2	3	4	5	6	7	8	9	1A	1B	1C	1D	1E	1F	2G	2H	2J
19	**5**	**16**	**6**	**5**	**10**	**3**	-	-	-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	9.5 *[cm]*	**male**	18
max length	95.5 *[cm]*	**female**	23
		undefined	32
		total numbers of data	73

Raja montagui

Geographical distribution of data used for calculating the length-weight relationship

Raja montagui

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0029**

b **=** **3.2006**

data collected

time period : **1962 - 2008**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
34	**11**	**11**	**1**

Month

1	2	3	4	5	6	7	8	9	10	11	12
12	**20**	**2**	**8**	**1**	**2**	**7**	**4**	-	-	**1**	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**36**	-	**5**	**14**	**2**	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**19**	**12**	**5**	-	-	**5**	-	-	**7**	-	-	**2**	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	**1**	**4**	-	-	**2**	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
9	**8**	**10**	**1**	**5**	**3**	-	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	13.5 *[cm]*
max length	83.5 *[cm]*

male	28
female	23
undefined	6
total numbers of data	57

Raja naevus

Geographical distribution of data used for calculating the length-weight relationship

Raja naevus

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0025**

b **=** **3.216**

data collected

time period : **1994 - 2008**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
156	**25**	**198**	**11**

Month

1	2	3	4	5	6	7	8	9	10	11	12
63	**73**	**20**	**15**	-	**10**	**45**	**151**	**2**	-	**11**	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**361**	-	-	**12**	**17**	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**315**	**46**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
1	**4**	**7**	-	**12**	**2**	-	**3**	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
58	**15**	**273**	**15**	-	-	-	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 11.5 *[cm]*

max length 68.5 *[cm]*

male	148
female	225
undefined	17
total numbers of data	390

Raja naevus ♀

Geographical distribution of data used for calculating the length-weight relationship

Raja naevus ♀

(female)

Quarter: 1 - 4

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* = 0.0023**

***b* = 3.2423**

data collected

time period : 1994 - 2008

data source : research vessel

numbers of data:

Quarter

1	2	3	4
76	**18**	**124**	**7**

Month

1	2	3	4	5	6	7	8	9	10	11	12
34	**38**	**4**	**13**	-	**5**	**28**	**94**	**2**	-	**7**	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**211**	-	-	**7**	**7**	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**181**	**30**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
1	**3**	**3**	-	**4**	**1**	-	**2**	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
24	**9**	**168**	**10**	-	-	-	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 12.5 *[cm]*

max length 67.5 *[cm]*

male	-
female	225
undefined	-
total numbers of data	225

Raja naevus ♂

Geographical distribution of data used for calculating the length-weight relationship

Raja naevus ♂

(male)

Quarter: 1 - 4

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* = 0.0032**

***b* = 3.1435**

data collected

time period : 1994 - 2008

data source : research vessel

numbers of data:

Quarter

1	2	3	4
64	**7**	**73**	**4**

Month

1	2	3	4	5	6	7	8	9	10	11	12
26	**34**	**4**	**2**	-	**5**	**16**	**57**	-	-	**4**	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**145**	-	-	**1**	**2**	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**129**	**16**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	**1**	-	**1**	**1**	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
33	**6**	**101**	**5**	-	-	-	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 11.5 *[cm]*

max length 68.5 *[cm]*

male	148
female	-
undefined	-
total numbers of data	148

Raja radiata

Geographical distribution of data used for calculating the length-weight relationship

Raja radiata

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **= 0.0069**

b **= 3.0343**

data collected

time period : 1994 - 2008

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
277	**58**	**808**	**13**

Month											
1	2	3	4	5	6	7	8	9	10	11	12
157	**110**	**10**	**3**	**31**	**24**	**498**	**300**	**10**	-	**13**	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**1156**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**562**	**594**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea								
1	2	3	4	5	6	7	8	9
423	**197**	**102**	**86**	**1**	**26**	**321**	-	-

NAFO								
1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	7.5 *[cm]*
max length	60.5 *[cm]*

male	528
female	584
undefined	44
total numbers of data	1156

Raja radiata ♀

Geographical distribution of data used for calculating the length-weight relationship

Raja radiata ♀

(female)

Quarter: 1 - 4

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* = 0.0073**

***b* = 3.0145**

data collected

time period : 1994 - 2008

data source : research vessel

numbers of data:

Quarter

1	2	3	4
123	**30**	**428**	**3**

Month

1	2	3	4	5	6	7	8	9	10	11	12
70	**49**	**4**	-	**14**	**16**	**268**	**153**	**7**	-	**3**	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**584**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**280**	**304**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
215	**87**	**52**	**45**	**1**	**16**	**168**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 7.5 *[cm]*

max length 60.5 *[cm]*

male	-
female	584
undefined	-
total numbers of data	584

Raja radiata ♂

Geographical distribution of data used for calculating the length-weight relationship

Raja radiata ♂

(male)

Quarter: 1 - 4

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* = 0.0063**

***b* = 3.0574**

data collected

time period : 1994 - 2008

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
142	**19**	**358**	**9**

Month											
1	2	3	4	5	6	7	8	9	10	11	12
82	**56**	**4**	**2**	**11**	**6**	**221**	**134**	**3**	-	**9**	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**528**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**271**	**257**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea								
1	2	3	4	5	6	7	8	9
199	**92**	**48**	**39**	-	**4**	**146**	-	-

NAFO								
1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 8.5 *[cm]*

max length 53.5 *[cm]*

male	528
female	-
undefined	-
total numbers of data	528

Rhinonemus cimbrius

Geographical distribution of data used for calculating the length-weight relationship

Rhinonemus cimbrius

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **= 0.0032**

b **= 3.1436**

data collected

time period : 2000 - 2011
data source : research vessel

numbers of data:

Quarter

1	2	3	4
145	**10**	**264**	**29**

Month

1	2	3	4	5	6	7	8	9	10	11	12
101	**42**	**2**	-	**6**	**4**	**40**	**224**	-	**1**	**9**	**19**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**448**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**35**	**411**	**2**	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
23	**8**	**12**	-	-	**373**	**32**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below, mm below**

min length 4.65 *[cm]*
max length 28.5 *[cm]*

male -
female -
undefined 448

total numbers of data 448

Sardina pilchardus

Geographical distribution of data used for calculating the length-weight relationship

Sardina pilchardus

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0034**

b **=** **3.2665**

data collected

time period : **1995 - 2008**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
216	**28**	**109**	**12**

Month

1	2	3	4	5	6	7	8	9	10	11	12
110	**102**	**4**	**2**	**2**	**24**	**75**	**33**	**1**	**5**	**6**	**1**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**359**	-	**1**	**3**	**2**	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**108**	**250**	**1**	-	-	**1**	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	**3**	-	**2**	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
7	**103**	**102**	**3**	**2**	**137**	**5**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **1/2 cm below**

min length 6.25 *[cm]*

max length 28.75 *[cm]*

male	73
female	84
undefined	208
total numbers of data	365

Scomber scombrus

Geographical distribution of data used for calculating the length-weight relationship

Scomber scombrus

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.004**

b **=** **3.1996**

data collected

time period : **1996 - 2008**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
3239	**1828**	**3509**	**24**

Month

1	2	3	4	5	6	7	8	9	10	11	12
807	**1223**	**1209**	**1697**	**118**	**13**	**1781**	**1478**	**250**	**4**	**14**	**6**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**5696**	-	**435**	**2208**	**261**	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**2719**	**2965**	**12**	-	-	**435**	-	-	**419**	**16**	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	**277**	**1496**	-	**208**	**18**	**20**	**15**	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
2171	**471**	**453**	**317**	**11**	**1858**	**415**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	7.5 *[cm]*
max length	45.5 *[cm]*

male	3721
female	3713
undefined	1166
total numbers of data	8600

Scomber scombrus ♀

Geographical distribution of data used for calculating the length-weight relationship

Scomber scombrus ♀

Quarter: 1 - 4

(female)

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* = 0.002**

***b* = 3.4011**

data collected

time period : 1994 - 2009

data source : research vessel

numbers of data:

Quarter

1	2	3	4
5497	**1146**	**2154**	**1035**

Month

1	2	3	4	5	6	7	8	9	10	11	12
1985	**2721**	**791**	**938**	**157**	**51**	**988**	**1030**	**136**	**348**	**457**	**230**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**4630**	-	**1734**	**3134**	**334**	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**2805**	**1825**	-	-	-	**1683**	-	-	**1092**	**102**	**119**	**39**	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	**194**	**1639**	-	**311**	-	-	**23**	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
2483	**237**	**285**	**154**	**132**	**1026**	**313**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 15.5 *[cm]*

max length 47.5 *[cm]*

male	-
female	9832
undefined	-
total numbers of data	9832

Scomber scombrus ♂

Geographical distribution of data used for calculating the length-weight relationship

Scomber scombrus ♂

Quarter: 1 - 4

(male)

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* = 0.002**

***b* = 3.4036**

data collected

time period : 1994 - 2009

data source : research vessel

numbers of data:

Quarter

1	2	3	4
5375	**1246**	**1823**	**884**

Month

1	2	3	4	5	6	7	8	9	10	11	12
1872	**2573**	**930**	**1022**	**154**	**70**	**812**	**906**	**105**	**359**	**336**	**189**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**4039**	-	**1720**	**3292**	**277**	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**2461**	**1578**	-	-	-	**1673**	-	-	**1048**	**108**	**114**	**59**	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	**234**	**1776**	-	**239**	-	-	**38**	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
2183	**226**	**254**	**176**	**114**	**855**	**231**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 15.5 *[cm]*

max length 46.5 *[cm]*

male	9328
female	-
undefined	-
total numbers of data	9328

Scomber scombrus *Quarter 1*

Geographical distribution of data used for calculating the length-weight relationship

Scomber scombrus

Quarter: **1**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0027**

b **=** **3.3022**

data collected

time period : **1996 - 2008**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
3239	-	-	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
807	**1223**	**1209**	-	-	-	-	-	-	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**2030**	-	**435**	**773**	**1**	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**1733**	**295**	**2**	-	-	**435**	-	-	**171**	**16**	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	**586**	-	**1**	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
1576	**301**	**79**	-	-	**14**	**60**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	10.5 *[cm]*
max length	43.5 *[cm]*

male	1451
female	1342
undefined	446
total numbers of data	3239

Scomber scombrus *January*

Geographical distribution of data used for calculating the length-weight relationship

Scomber scombrus *January*

$Tw_{[g]} = a * L_{[cm]}^{b}$

a = 0.0022

b = 3.3809

data collected

time period : 1996 - 2008

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
807	-	-	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
807	-	-	-	-	-	-	-	-	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**807**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**722**	**85**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea								
1	2	3	4	5	6	7	8	9
707	**29**	**4**	-	-	**7**	**60**	-	-

NAFO								
1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	15.5 *[cm]*	**male**	286
max length	43.5 *[cm]*	**female**	318
		undefined	203
		total numbers of data	807

Scomber scombrus *February*

Geographical distribution of data used for calculating the length-weight relationship

Scomber scombrus — *February*

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **= 0.0026**

b **= 3.3148**

data collected

time period : 1996 - 2008

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
1223	-	-	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
-	**1223**	-	-	-	-	-	-	-	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**1223**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**1011**	**210**	**2**	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea									NAFO								
1	2	3	4	5	6	7	8	9	1A	1B	1C	1D	1E	1F	2G	2H	2J
869	**272**	**75**	-	-	**7**	-	-	-	-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	10.5 *[cm]*
max length	41.5 *[cm]*

male	519
female	557
undefined	147
total numbers of data	1223

Scomber scombrus *March*

Geographical distribution of data used for calculating the length-weight relationship

Scomber scombrus — *March*

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **= 0.0017**

b **= 3.4118**

data collected

time period : 1996 - 2007

data source : research vessel

numbers of data:

Quarter

1	2	3	4
1209	-	-	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
-	-	**1209**	-	-	-	-	-	-	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	-	-	**435**	**773**	**1**	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	-	-	-	-	-	**435**	-	-	**171**	**16**	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	**586**	-	**1**	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
-	-	-	-	-	-	-	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	15.5 *[cm]*
max length	43.5 *[cm]*

male	646
female	467
undefined	96
total numbers of data	1209

Scomber scombrus *Quarter 2*

Geographical distribution of data used for calculating the length-weight relationship

Scomber scombrus

Quarter: **2**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0024**

b **=** **3.308**

data collected

time period : **1996 - 2007**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
-	**1828**	-	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	**1697**	**118**	**13**	-	-	-	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**133**	-	-	**1435**	**260**	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**3**	**130**	-	-	-	-	-	-	**248**	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	**277**	**910**	-	**207**	**18**	**20**	**15**	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
-	**3**	**2**	-	-	**123**	**5**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	16.5 *[cm]*
max length	45.5 *[cm]*

male	866
female	815
undefined	147
total numbers of data	1828

Scomber scombrus *April*

Geographical distribution of data used for calculating the length-weight relationship

Scomber scombrus *April*

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **= 0.0024**

b **= 3.2954**

data collected

time period : 1997 - 2007
data source : research vessel

numbers of data:

Quarter			
1	2	3	4
-	**1696**	-	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	**1696**	-	-	-	-	-	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**2**	-	-	**1434**	**260**	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	-	**2**	-	-	-	-	-	-	**248**	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	**277**	**909**	-	**207**	**18**	**20**	**15**	-	-	-

Roundfisharea									NAFO								
1	2	3	4	5	6	7	8	9	1A	1B	1C	1D	1E	1F	2G	2H	2J
-	**2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	16.5 *[cm]*
max length	45.5 *[cm]*

male	817
female	752
undefined	127
total numbers of data	1696

Scomber scombrus *May*

Geographical distribution of data used for calculating the length-weight relationship

Scomber scombrus *May*

$Tw_{[g]} = a * L_{[cm]}^{b}$

a = 0.0028

b = 3.2932

data collected

time period : 1996 - 2006

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
-	**118**	-	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	**118**	-	-	-	-	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**118**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	-	**118**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea									NAFO								
1	2	3	4	5	6	7	8	9	1A	1B	1C	1D	1E	1F	2G	2H	2J
-	**1**	-	-	-	**117**	-	-	-	-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	26.5 *[cm]*	**male**	49
max length	43.5 *[cm]*	**female**	62
		undefined	7
		total numbers of data	118

Scomber scombrus *Quarter 3*

Geographical distribution of data used for calculating the length-weight relationship

Scomber scombrus

Quarter: **3**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **= 0.0043**

b **= 3.2101**

data collected

time period : 1996 - 2007
data source : research vessel

numbers of data:

Quarter

1	2	3	4
-	-	**3509**	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	-	-	**1781**	**1478**	**250**	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**3509**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**983**	**2516**	**10**	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
595	**167**	**370**	**317**	**11**	**1699**	**350**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 7.5 *[cm]*
max length 45.5 *[cm]*

male	1404
female	1556
undefined	549
total numbers of data	3509

Scomber scombrus *July*

Geographical distribution of data used for calculating the length-weight relationship

Scomber scombrus *July*

$Tw_{[g]} = a * L_{[cm]}^{b}$

a = 0.0043

b = 3.2122

data collected

time period : 1996 - 2007

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
-	-	**1781**	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	-	-	**1781**	-	-	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**1781**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**737**	**1034**	**10**	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea									NAFO								
1	2	3	4	5	6	7	8	9	1A	1B	1C	1D	1E	1F	2G	2H	2J
517	**78**	**217**	**121**	**11**	**627**	**210**	-	-	-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 7.5 *[cm]*

max length 43.5 *[cm]*

male	637
female	706
undefined	438
total numbers of data	1781

Scomber scombrus *August*

Geographical distribution of data used for calculating the length-weight relationship

Scomber scombrus — *August*

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **= 0.0046**

b **= 3.1875**

data collected

time period : 1996 - 2007

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
-	-	**1478**	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	-	-	-	**1478**	-	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**1478**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**178**	**1300**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea									NAFO								
1	2	3	4	5	6	7	8	9	1A	1B	1C	1D	1E	1F	2G	2H	2J
78	**89**	**85**	**113**	-	**995**	**118**	-	-	-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	11.5 *[cm]*	**male**	662
max length	45.5 *[cm]*	**female**	714
		undefined	102
		total numbers of data	1478

Scomber scombrus *September*

Geographical distribution of data used for calculating the length-weight relationship

Scomber scombrus — *September*

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **= 0.0029**

b **= 3.335**

data collected

time period : 1997

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
-	-	**250**	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	-	-	-	-	**250**	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**250**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**68**	**182**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea									NAFO								
1	2	3	4	5	6	7	8	9	1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	**68**	**83**	-	**77**	**22**	-	-	-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	13.5 *[cm]*
max length	40.5 *[cm]*

male	105
female	136
undefined	9
total numbers of data	250

Scomber scombrus *Quarter 4*

Geographical distribution of data used for calculating the length-weight relationship

Scomber scombrus

Quarter: **4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0015**

b **=** **3.4916**

data collected

time period : **1997 - 2003**

data source : **research vessel, commercial trawler**

numbers of data:

Quarter

1	2	3	4
-	-	-	**1510**

Month

1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	-	-	-	-	-	**286**	**499**	**725**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**673**	-	-	**352**	**485**	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**649**	**24**	-	-	-	-	-	-	-	-	-	**88**	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	**264**	-	-	**485**	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
649	-	**2**	-	-	**22**	-	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	16.5 *[cm]*	**male**	395
max length	45.5 *[cm]*	**female**	490
		undefined	625
		total numbers of data	1510

Scomber scombrus *October*

Geographical distribution of data used for calculating the length-weight relationship

Scomber scombrus *October*

$Tw_{[g]} = a * L_{[cm]}^{b}$

a = 0.003

b = 3.2714

data collected

time period : 2001 - 2003

data source : research vessel, commercial trawler

numbers of data:

Quarter

1	2	3	4
-	-	-	**286**

Month

1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	-	-	-	-	-	**286**	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**4**	-	-	**282**	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	-	**4**	-	-	-	-	-	-	-	-	-	**88**	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	**194**	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
-	-	-	-	-	**4**	-	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 16.5 *[cm]*

max length 39.5 *[cm]*

male	120
female	87
undefined	79
total numbers of data	286

Scomber scombrus *November*

Geographical distribution of data used for calculating the length-weight relationship

Scomber scombrus *November*

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **= 0.0027**

b **= 3.3083**

data collected

time period : 1997 - 2003

data source : research vessel, commercial trawler

numbers of data:

Quarter			
1	2	3	4
-	-	-	**498**

Month											
1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	-	-	-	-	-	-	**498**	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**14**	-	-	-	**484**	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	-	**14**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	**484**	-	-	-	-	-	-

Roundfisharea									NAFO								
1	2	3	4	5	6	7	8	9	1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	**2**	-	-	**12**	-	-	-	-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	20.5 *[cm]*	**male**	142
max length	35.5 *[cm]*	**female**	231
		undefined	125
		total numbers of data	498

Scomber scombrus *December*

Geographical distribution of data used for calculating the length-weight relationship

Scomber scombrus — *December*

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **= 0.001**

b **= 3.5993**

data collected

time period : 1997 - 2003

data source : research vessel, commercial trawler

numbers of data:

Quarter

1	2	3	4
-	-	-	**724**

Month

1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	-	-	-	-	-	-	-	**724**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**654**	-	-	**70**	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**649**	**5**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	**70**	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
649	-	-	-	-	**5**	-	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	16.5 *[cm]*
max length	45.5 *[cm]*

male	132
female	172
undefined	420
total numbers of data	724

Scophthalmus rhombus

Geographical distribution of data used for calculating the length-weight relationship

Scophthalmus rhombus

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0103**

b **=** **3.0937**

data collected

time period : **1990 - 2008**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
97	**203**	**157**	**71**

Month

1	2	3	4	5	6	7	8	9	10	11	12
72	**23**	**2**	**8**	**156**	**39**	**53**	**78**	**26**	**10**	**31**	**30**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**526**	-	**1**	**1**	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**4**	**518**	**4**	-	-	**1**	-	-	-	-	**1**	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
1	**4**	**3**	**2**	-	**500**	**16**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	4.5 *[cm]*
max length	56.5 *[cm]*

male	57
female	48
undefined	423
total numbers of data	528

Scyliorhinus canicula

Geographical distribution of data used for calculating the length-weight relationship

Scyliorhinus canicula

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0021**

b **=** **3.1276**

data collected

time period : **1986 - 2008**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
379	**77**	**209**	**18**

Month

1	2	3	4	5	6	7	8	9	10	11	12
149	**205**	**25**	**44**	**2**	**31**	**66**	**135**	**8**	**1**	**12**	**5**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**616**	-	**13**	**43**	**11**	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**509**	**97**	**10**	-	-	**13**	-	-	-	-	-	**2**	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
2	**3**	**36**	-	**5**	**3**	-	**3**	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
213	**36**	**312**	**7**	**12**	**31**	**5**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	16.5 *[cm]*
max length	79.5 *[cm]*

male	277
female	316
undefined	90
total numbers of data	683

Scyliorhinus canicula ♀

Geographical distribution of data used for calculating the length-weight relationship

Scyliorhinus canicula ♀

Quarter: 1 - 4

(female)

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* = 0.0017**

***b* = 3.1946**

data collected

time period : 1986 - 2008

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
161	29	124	2

Month											
1	2	3	4	5	6	7	8	9	10	11	12
66	90	5	17	1	11	24	95	5	-	2	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	295	-	5	16	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	260	35	-	-	-	5	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
1	-	15	-	-	-	-	-	-	-	-

Roundfisharea									NAFO								
1	2	3	4	5	6	7	8	9	1A	1B	1C	1D	1E	1F	2G	2H	2J
68	13	200	5	2	7	-	-	-	-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 16.5 *[cm]*

max length 79.5 *[cm]*

male	-
female	316
undefined	-
total numbers of data	316

Scyliorhinus canicula ♂

Geographical distribution of data used for calculating the length-weight relationship

Scyliorhinus canicula ♂

Quarter: 1 - 4

(male)

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* = 0.0033**

***b* = 3.0097**

data collected

time period : 1986 - 2008

data source : research vessel

numbers of data:

Quarter

1	2	3	4
175	**32**	**66**	**4**

Month

1	2	3	4	5	6	7	8	9	10	11	12
75	**94**	**6**	**17**	-	**15**	**28**	**37**	**1**	-	**4**	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**255**	-	**4**	**13**	**5**	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**218**	**33**	**4**	-	-	**4**	-	-	-	-	-	**2**	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B
-	**1**	**10**	-	**1**	**3**	-	**1**	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
132	**17**	**94**	-	**5**	**6**	**1**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	19.5 *[cm]*	**male**	277
max length	78.5 *[cm]*	**female**	-
		undefined	-
		total numbers of data	277

Sebastes marinus

Geographical distribution of data used for calculating the length-weight relationship

Sebastes marinus

Quarter: **1; 3; 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **= 0.0065**

b **= 3.2124**

data collected

time period : 1997 - 2007

data source : research vessel, commercial trawler

numbers of data:

Quarter

1	2	3	4
356	-	**393**	**324**

Month

1	2	3	4	5	6	7	8	9	10	11	12
-	**355**	**1**	-	-	-	**393**	-	-	-	**324**	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	**677**	-	**3**	-	-	-	-	-	-	-	**393**

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	**677**	-	-	-	-	-	**3**	-	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	**393**

Roundfisharea

1	2	3	4	5	6	7	8	9
3	-	-	-	-	-	-	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	19.5 *[cm]*
max length	66.5 *[cm]*

male	138
female	146
undefined	789
total numbers of data	1073

Sebastes mentella

Geographical distribution of data used for calculating the length-weight relationship

Sebastes mentella

Quarter: **1 - 3**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0127**

b **=** **2.9773**

data collected

time period : **1988 - 2005**

data source : **commercial trawler, research vessel**

numbers of data:

Quarter

1	2	3	4
674	**12030**	**7326**	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
127	**246**	**301**	**7497**	**4226**	**307**	**1957**	**4770**	**599**	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
3329	**1476**	-	-	**1**	-	-	-	-	-	**1380**	**13844**

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	**373**	-	-	-	-	-	-	-	-	-	**1**	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	**1380**	-	**13844**

Roundfisharea

1	2	3	4	5	6	7	8	9
5	-	-	-	-	-	-	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	**3329**	-	-	**1103**

Method of Measurement

- **Total length**
- **cm below**

min length	16.5 *[cm]*	**male**	8727
max length	77.5 *[cm]*	**female**	10011
		undefined	1292
		total numbers of data	20030

Sebastes viviparus

Geographical distribution of data used for calculating the length-weight relationship

Sebastes viviparus

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **= 0.0127**

b **= 0.3.0797**

data collected

time period : 1960 - 2005
data source : research vessel

numbers of data:

Quarter			
1	2	3	4
32	**9**	**21**	**5**

Month											
1	2	3	4	5	6	7	8	9	10	11	12
12	**17**	**3**	-	**5**	**4**	**20**	**1**	-	-	**5**	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**66**	-	-	**1**	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**58**	**8**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	**1**	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea									NAFO								
1	2	3	4	5	6	7	8	9	1A	1B	1C	1D	1E	1F	2G	2H	2J
44	**5**	**9**	**1**	-	**1**	**6**	-	-	-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 10.5 *[cm]*
max length 31.5 *[cm]*

male	-
female	-
undefined	67
total numbers of data	67

Solea vulgaris

Geographical distribution of data used for calculating the length-weight relationship

Solea vulgaris

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0034**

b **=** **3.2974**

data collected

time period : **1995 - 2007**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
400	**730**	**288**	**374**

Month

1	2	3	4	5	6	7	8	9	10	11	12
151	**19**	**230**	**180**	**446**	**104**	**16**	**104**	**168**	**324**	**23**	**27**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**1791**	-	-	**1**	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**2**	**948**	**841**	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
1	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
-	**4**	**3**	-	-	**1736**	**48**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	5.5 *[cm]*	**male**	333
max length	42.5 *[cm]*	**female**	938
		undefined	521
		total numbers of data	1792

Solea vulgaris ♀

Geographical distribution of data used for calculating the length-weight relationship

Solea vulgaris ♀

Quarter: 1 - 4

(female)

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* = 0.0032**

***b* = 3.3307**

data collected

time period : 1996 - 2008

data source : research vessel, commercial trawler

numbers of data:

Quarter

1	2	3	4
493	**949**	**569**	**808**

Month

1	2	3	4	5	6	7	8	9	10	11	12
109	**91**	**293**	**361**	**413**	**175**	**350**	**15**	**204**	**627**	-	**181**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**2819**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	-	**2136**	**683**	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
-	**1**	-	-	-	**2786**	**32**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 13.5 *[cm]*

max length 44.5 *[cm]*

male	-
female	2819
undefined	-
total numbers of data	2819

Solea vulgaris ♂

Geographical distribution of data used for calculating the length-weight relationship

Solea vulgaris ♂

(male)

Quarter: 1 - 4

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* = 0.0047**

***b* = 3.1882**

data collected

time period : 1996 - 2008

data source : research vessel, commercial trawler

numbers of data:

Quarter			
1	2	3	4
108	**508**	**159**	**118**

Month											
1	2	3	4	5	6	7	8	9	10	11	12
11	**17**	**80**	**79**	**365**	**64**	**46**	**23**	**90**	**64**	-	**54**

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**893**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	-	**757**	**136**	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea									NAFO								
1	2	3	4	5	6	7	8	9	1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	**781**	**112**	-	-	-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	12.5 *[cm]*
max length	42.5 *[cm]*

male	893
female	-
undefined	-
total numbers of data	893

Sprattus sprattus

Geographical distribution of data used for calculating the length-weight relationship

Sprattus sprattus

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0052**

b **=** **3.1474**

data collected

time period : **1995 - 2007**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
2663	**1135**	**7656**	**25**

Month

1	2	3	4	5	6	7	8	9	10	11	12
1260	**1254**	**149**	**122**	**261**	**752**	**5967**	**1341**	**348**	**10**	**7**	**8**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**11397**	-	-	**82**	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**1096**	**9787**	**514**	-	-	-	-	-	**1**	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	**81**	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
139	**549**	**967**	**654**	**627**	**6732**	**1729**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **1/2 cm below**

min length 3.75 *[cm]*

max length 15.75 *[cm]*

male	4684
female	5531
undefined	1264
total numbers of data	11479

Sprattus sprattus ♀

Geographical distribution of data used for calculating the length-weight relationship

Sprattus sprattus ♀

(female)

Quarter: 1 - 4

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* = 0.0078**

***b* = 2.9851**

data collected

time period : 1994 - 2009

data source : research vessel

numbers of data:

Quarter

1	2	3	4
1476	**793**	**4859**	**49**

Month

1	2	3	4	5	6	7	8	9	10	11	12
688	**697**	**91**	**153**	**147**	**493**	**4101**	**649**	**109**	-	-	**49**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	**301**	**6838**	-	-	**38**	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	**140**	**161**	**526**	**6049**	**263**	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	**38**	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
66	**267**	**464**	**370**	**571**	**4190**	**910**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **1/2 cm below**

min length 5.75 *[cm]*

max length 16.25 *[cm]*

male	-
female	7177
undefined	-
total numbers of data	7177

Sprattus sprattus ♂

Geographical distribution of data used for calculating the length-weight relationship

Sprattus sprattus ♂

(male)

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **= 0.0069**

b **= 3.0305**

data collected

time period : 1994 - 2009

data source : research vessel

numbers of data:

Quarter

1	2	3	4
1326	**632**	**3773**	**19**

Month

1	2	3	4	5	6	7	8	9	10	11	12
599	**635**	**92**	**92**	**170**	**370**	**3120**	**548**	**105**	-	-	**19**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	**202**	**5511**	-	-	**37**	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	**69**	**133**	**516**	**4782**	**213**	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	**37**	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
55	**241**	**466**	**341**	**431**	**3244**	**733**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **1/2 cm below**

min length 5.75 *[cm]*

max length 15.25 *[cm]*

male	5750
female	-
undefined	-
total numbers of data	5750

Sprattus sprattus *Quarter 1*

Geographical distribution of data used for calculating the length-weight relationship

Sprattus sprattus

Quarter: **1**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **= 0.0038**

b **= 3.2418**

data collected

time period : 1995 - 2007

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
2663	-	-	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
1260	**1254**	**149**	-	-	-	-	-	-	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**2582**	-	-	**81**	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**913**	**1669**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	**81**	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea								
1	2	3	4	5	6	7	8	9
138	**376**	**783**	-	-	**1073**	**212**	-	-

NAFO								
1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **1/2 cm below**

min length	4.75 *[cm]*	**male**	1113
max length	15.75 *[cm]*	**female**	1186
		undefined	364
		total numbers of data	2663

Sprattus sprattus *January*

Geographical distribution of data used for calculating the length-weight relationship

Sprattus sprattus — *January*

$Tw_{[g]} = a * L_{[cm]}^{b}$

a = 0.0039

b = 3.2324

data collected

time period : 1995 - 2007

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
1260	-	-	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
1260	-	-	-	-	-	-	-	-	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	1260	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	423	837	-	-	-	-	-	-	-	-	-	-	-
7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B					
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					

Roundfisharea									NAFO								
1	2	3	4	5	6	7	8	9	1A	1B	1C	1D	1E	1F	2G	2H	2J
102	45	330	-	-	646	137	-	-	-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **1/2 cm below**

min length	4.75 *[cm]*	**male**	504
max length	14.75 *[cm]*	**female**	570
		undefined	186
		total numbers of data	1260

Sprattus sprattus *February*

Geographical distribution of data used for calculating the length-weight relationship

Sprattus sprattus — *February*

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **= 0.0033**

b **= 3.2926**

data collected

time period : 1995 - 2007

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
1254	-	-	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
-	**1254**	-	-	-	-	-	-	-	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**1254**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**490**	**764**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea									NAFO								
1	2	3	4	5	6	7	8	9	1A	1B	1C	1D	1E	1F	2G	2H	2J
36	**331**	**453**	-	-	**407**	**27**	-	-	-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **1/2 cm below**

min length	5.75 *[cm]*	**male**	543
max length	15.75 *[cm]*	**female**	550
		undefined	161
		total numbers of data	1254

Sprattus sprattus *March*

Geographical distribution of data used for calculating the length-weight relationship

Sprattus sprattus — *March*

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* =** **0.0072**

***b* =** **2.9707**

data collected

time period : 1996 - 2000

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
149	-	-	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
-	-	**149**	-	-	-	-	-	-	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**68**	-	-	**81**	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	-	**68**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	**81**	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea									NAFO								
1	2	3	4	5	6	7	8	9	1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	**20**	**48**	-	-	-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **1/2 cm below**

min length	6.75 *[cm]*
max length	15.75 *[cm]*

male	66
female	66
undefined	17
total numbers of data	149

Sprattus sprattus *Quarter 2*

Geographical distribution of data used for calculating the length-weight relationship

Sprattus sprattus

Quarter: **2**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0075**

b **=** **3.0174**

data collected

time period : **1995 - 2007**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
-	**1135**	-	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	**122**	**261**	**752**	-	-	-	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**1134**	-	-	**1**	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**90**	**1044**	-	-	-	-	-	-	**1**	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
1	**31**	**89**	**93**	-	**683**	**237**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **1/2 cm below**

min length	5.75 *[cm]*	**male**	493
max length	14.75 *[cm]*	**female**	502
		undefined	140
		total numbers of data	1135

Sprattus sprattus *April*

Geographical distribution of data used for calculating the length-weight relationship

Sprattus sprattus *April*

$Tw_{[g]} = a * L_{[cm]}^{b}$

a = 0.01

b = 2.8771

data collected

time period : 1996 - 2007

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
-	**122**	-	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	**122**	-	-	-	-	-	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**121**	-	-	**1**	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	-	**121**	-	-	-	-	-	-	**1**	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea									NAFO								
1	2	3	4	5	6	7	8	9	1A	1B	1C	1D	1E	1F	2G	2H	2J
-	**1**	-	-	-	**120**	-	-	-	-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **1/2 cm below**

min length	5.75 *[cm]*	**male**	36
max length	14.75 *[cm]*	**female**	62
		undefined	24
		total numbers of data	122

Sprattus sprattus *May*

Geographical distribution of data used for calculating the length-weight relationship

Sprattus sprattus — *May*

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* =** **0.0049**

***b* =** **3.2161**

data collected

time period : 1995 - 2006

data source : research vessel

numbers of data:

Quarter

1	2	3	4
-	**261**	-	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	**261**	-	-	-	-	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**261**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**1**	**260**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
1	**27**	-	**91**	-	**69**	**73**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **1/2 cm below**

min length	5.75 *[cm]*	**male**	130
max length	14.25 *[cm]*	**female**	92
		undefined	39
		total numbers of data	261

Sprattus sprattus *June*

Geographical distribution of data used for calculating the length-weight relationship

Sprattus sprattus — *June*

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **= 0.008**

b **= 2.9889**

data collected

time period : 1995 - 2004

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
-	**752**	-	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	-	**752**	-	-	-	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**752**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**89**	**663**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea									NAFO								
1	2	3	4	5	6	7	8	9	1A	1B	1C	1D	1E	1F	2G	2H	2J
-	**3**	**89**	**2**	-	**494**	**164**	-	-	-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **1/2 cm below**

min length	6.75 *[cm]*	**male**	327
max length	14.75 *[cm]*	**female**	348
		undefined	77
		total numbers of data	752

Sprattus sprattus *Quarter 3*

Geographical distribution of data used for calculating the length-weight relationship

Sprattus sprattus

Quarter: **3**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **= 0.0073**

b **= 3.0207**

data collected

time period : 1995 - 2007

data source : research vessel

numbers of data:

Quarter

1	2	3	4
-	-	**7656**	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	-	-	**5967**	**1341**	**348**	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**7656**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**93**	**7049**	**514**	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
-	**142**	**93**	**561**	**627**	**4953**	**1280**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **1/2 cm below**

min length 3.75 *[cm]*

max length 15.75 *[cm]*

male	3078
female	3843
undefined	735
total numbers of data	7656

Sprattus sprattus *July*

Geographical distribution of data used for calculating the length-weight relationship

Sprattus sprattus *July*

$Tw_{[g]} = a * L_{[cm]}^{b}$

a = 0.0084

b = 2.9566

data collected

time period : 1995 - 2007

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
-	-	5967	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	-	-	5967	-	-	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	5967	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	48	5405	514	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea									NAFO								
1	2	3	4	5	6	7	8	9	1A	1B	1C	1D	1E	1F	2G	2H	2J
-	77	48	371	627	3776	1068	-	-	-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **1/2 cm below**

min length 3.75 *[cm]*

max length 15.75 *[cm]*

male	2468
female	3142
undefined	357
total numbers of data	5967

Sprattus sprattus *August*

Geographical distribution of data used for calculating the length-weight relationship

Sprattus sprattus — *August*

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **= 0.0055**

b **= 3.1562**

data collected

time period : 1995 - 2007

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
-	-	**1341**	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	-	-	-	**1341**	-	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**1341**	-	-	-	-	-	-	-	-

Division																		
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**3**	**1338**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea								
1	2	3	4	5	6	7	8	9
-	**17**	**3**	**120**	-	**1025**	**176**	-	-

NAFO								
1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **1/2 cm below**

min length	4.75 *[cm]*	**male**	504
max length	14.75 *[cm]*	**female**	592
		undefined	245
		total numbers of data	1341

Sprattus sprattus *September*

Geographical distribution of data used for calculating the length-weight relationship

Sprattus sprattus — *September*

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* =** **0.0046**

***b* =** **3.2214**

data collected

time period : 1996 - 2006

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
-	-	**348**	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	-	-	-	-	**348**	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**348**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**42**	**306**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea									NAFO								
1	2	3	4	5	6	7	8	9	1A	1B	1C	1D	1E	1F	2G	2H	2J
-	**48**	**42**	**70**	-	**152**	**36**	-	-	-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **1/2 cm below**

min length	4.75 *[cm]*	**male**	106
max length	15.25 *[cm]*	**female**	109
		undefined	133
		total numbers of data	348

Sprattus sprattus *Quarter 4*

Geographical distribution of data used for calculating the length-weight relationship

Sprattus sprattus

Quarter: **4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.007**

b **=** **3.0104**

data collected

time period : **1995 - 2006**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
-	-	-	**25**

Month

1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	-	-	-	-	-	**10**	**7**	**8**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**25**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	-	**25**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
-	-	**2**	-	-	**23**	-	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **1/2 cm below**

min length	6.75 *[cm]*	**male**	-
max length	14.25 *[cm]*	**female**	-
		undefined	25
		total numbers of data	25

Squalus acanthias

Geographical distribution of data used for calculating the length-weight relationship

Squalus acanthias

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0023**

b **=** **3.1289**

data collected

time period : **1994 - 2008**

data source : **research vessel**

numbers of data:

Quarter			
1	2	3	4
153	**48**	**55**	**17**

Month											
1	2	3	4	5	6	7	8	9	10	11	12
75	**63**	**15**	**8**	**20**	**20**	**39**	**8**	**8**	**1**	**12**	**4**

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**263**	-	**4**	**4**	**2**	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**118**	**144**	**1**	-	-	**4**	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	**3**	**1**	-	**1**	**1**	-	-	-	-	-	-	-	-	-

Roundfisharea									NAFO								
1	2	3	4	5	6	7	8	9	1A	1B	1C	1D	1E	1F	2G	2H	2J
59	**78**	**70**	**1**	**1**	**27**	**27**	-	-	-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	24.5 *[cm]*	**male**	127
max length	115.5 *[cm]*	**female**	108
		undefined	38
		total numbers of data	273

Squalus acanthias ♀

Geographical distribution of data used for calculating the length-weight relationship

Squalus acanthias ♀

(female)

Quarter: 1 - 4

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* = 0.0015**

***b* = 3.2491**

data collected

time period : 1994 - 2008

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
65	**18**	**21**	**4**

Month											
1	2	3	4	5	6	7	8	9	10	11	12
28	**30**	**7**	**4**	**8**	**6**	**13**	**5**	**3**	-	**4**	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**107**	-	-	-	**1**	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**53**	**54**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	**1**	-	-	-	-	-	-	-	-	-	-

Roundfisharea								
1	2	3	4	5	6	7	8	9
25	**30**	**34**	-	-	**11**	**7**	-	-

NAFO								
1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	24.5 *[cm]*	**male**	-
max length	115.5 *[cm]*	**female**	108
		undefined	-
		total numbers of data	108

Squalus acanthias ♂

Geographical distribution of data used for calculating the length-weight relationship

Squalus acanthias ♂

(male)

Quarter: 1 - 4

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* = 0.0041**

***b* = 2.984**

data collected

time period : 1994 - 2008

data source : research vessel

numbers of data:

Quarter

1	2	3	4
78	**21**	**23**	**5**

Month

1	2	3	4	5	6	7	8	9	10	11	12
42	**32**	**4**	**4**	**10**	**7**	**19**	**1**	**3**	-	**5**	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**120**	-	**3**	**3**	**1**	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**58**	**61**	**1**	-	-	**3**	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	**2**	**1**	-	-	**1**	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
32	**42**	**30**	-	**1**	**3**	**12**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	25.5 *[cm]*	**male**	127
max length	97.5 *[cm]*	**female**	-
		undefined	-
		total numbers of data	127

Syngnathus rostellatus

Geographical distribution of data used for calculating the length-weight relationship

Syngnathus rostellatus

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **= 0.00015**

b **= 3.40846**

data collected

time period : 2000 - 2011
data source : research vessel

numbers of data:

Quarter

1	2	3	4
66	**29**	**68**	**21**

Month

1	2	3	4	5	6	7	8	9	10	11	12
58	**7**	**1**	**6**	**23**	-	**8**	**28**	**32**	**4**	**6**	**11**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**184**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**1**	**183**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
-	-	**1**	**1**	-	**181**	**1**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below, 1/2 cm below, mm below**

min length 5.25 *[cm]*
max length 18.5 *[cm]*

male -
female -
undefined 184

total numbers of data 184

Trachinus draco

Geographical distribution of data used for calculating the length-weight relationship

Trachinus draco

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0061**

b **=** **3.0482**

data collected

time period : **1961 - 2005**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
11	**2**	**3**	**2**

Month

1	2	3	4	5	6	7	8	9	10	11	12
6	**5**	-	-	-	**2**	**1**	**1**	**1**	-	-	**2**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**17**	-	-	**1**	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	-	**17**	-	-	-	-	-	-	-	-	**1**	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
-	**2**	-	-	-	**5**	**10**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 10.5 *[cm]*

max length 36.5 *[cm]*

male	-
female	-
undefined	18
total numbers of data	18

Trachurus trachurus

Geographical distribution of data used for calculating the length-weight relationship

Trachurus trachurus

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0112**

b **=** **2.8824**

data collected

time period : **1994 - 2008**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
769	**2031**	**977**	**38**

Month

1	2	3	4	5	6	7	8	9	10	11	12
173	**166**	**430**	**1981**	**37**	**13**	**525**	**397**	**55**	**1**	**15**	**22**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**1406**	-	**159**	**1865**	**385**	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**285**	**1115**	**6**	-	-	**159**	-	-	**292**	**23**	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	**271**	**1279**	-	**325**	**7**	**34**	**19**	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
156	**136**	**122**	**41**	**7**	**811**	**133**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 2.5 *[cm]*

max length 41.5 *[cm]*

male	1410
female	1363
undefined	1042
total numbers of data	3815

Trachurus trachurus ♀

Geographical distribution of data used for calculating the length-weight relationship

Trachurus trachurus ♀

Quarter: 1 - 4

(female)

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* = 0.0177**

***b* = 2.7566**

data collected

time period : 1998 - 2008

data source : research vessel, commercial trawler

numbers of data:

Quarter

1	2	3	4
1496	**1162**	**285**	**2150**

Month

1	2	3	4	5	6	7	8	9	10	11	12
221	**936**	**339**	**904**	-	**258**	**172**	**113**	-	**1406**	**706**	**38**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**543**	-	**336**	**3818**	**396**	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**3**	**540**	-	-	-	**336**	-	-	**566**	**64**	**744**	**719**	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	**566**	**1159**	-	**396**	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
2	**36**	**1**	-	-	**468**	**36**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 15.5 *[cm]*

max length 42.5 *[cm]*

male	-
female	5093
undefined	-
total numbers of data	5093

Trachurus trachurus ♂

Geographical distribution of data used for calculating the length-weight relationship

Trachurus trachurus ♂

Quarter: 1 - 4

(male)

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* = 0.0166**

***b* = 2.7736**

data collected

time period : 2002 - 2008

data source : research vessel, commercial trawler

numbers of data:

Quarter

1	2	3	4
1557	**1073**	**283**	**1798**

Month

1	2	3	4	5	6	7	8	9	10	11	12
272	**925**	**360**	**927**	-	**146**	**184**	**99**	-	**1213**	**511**	**74**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**429**	-	**417**	**3534**	**331**	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**2**	**427**	-	-	-	**417**	-	-	**481**	**93**	**574**	**651**	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	**530**	**1205**	-	**331**	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
1	**32**	**1**	-	-	**356**	**39**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 12.5 *[cm]*

max length 45.5 *[cm]*

male	4711
female	-
undefined	-
total numbers of data	4711

Trachurus trachurus *Quarter 1*

Geographical distribution of data used for calculating the length-weight relationship

Trachurus trachurus

Quarter: **1**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0072**

b **=** **3.0172**

data collected

time period : **1994 - 2008**

data source : **research vessel, commercial trawler**

numbers of data:

Quarter

1	2	3	4
3388	-	-	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
330	**2289**	**769**	-	-	-	-	-	-	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**341**	-	**460**	**2587**	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**183**	**158**	-	-	-	**460**	-	-	**860**	**314**	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	**1413**	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
114	**55**	**68**	-	-	**96**	**8**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	6.5 *[cm]*	**male**	973
max length	46.5 *[cm]*	**female**	891
		undefined	1523
		total numbers of data	3388

Trachurus trachurus *January*

Geographical distribution of data used for calculating the length-weight relationship

Trachurus trachurus — *January*

$Tw_{[g]} = a * L_{[cm]}^{b}$

a = 0.0073

b = 3.0281

data collected

time period : 1994 - 2008

data source : research vessel, commercial trawler

numbers of data:

Quarter			
1	2	3	4
330	-	-	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
330	-	-	-	-	-	-	-	-	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	173	-	157	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	68	105	-	-	-	157	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea									NAFO								
1	2	3	4	5	6	7	8	9	1A	1B	1C	1D	1E	1F	2G	2H	2J
44	10	23	-	-	89	7	-	-	-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	6.5 *[cm]*
max length	38.5 *[cm]*

male	108
female	37
undefined	185
total numbers of data	330

Trachurus trachurus *February*

Geographical distribution of data used for calculating the length-weight relationship

Trachurus trachurus — *February*

$Tw_{[g]} = a * L_{[cm]}^{b}$

a = 0.0065

b = 3.0504

data collected

time period : 1995 - 2008

data source : research vessel, commercial trawler

numbers of data:

Quarter			
1	2	3	4
2289	-	-	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
-	2289	-	-	-	-	-	-	-	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	166	-	144	1979	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	113	53	-	-	-	144	-	-	474	291	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	1214	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea									NAFO								
1	2	3	4	5	6	7	8	9	1A	1B	1C	1D	1E	1F	2G	2H	2J
68	45	45	-	-	7	1	-	-	-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	10.5 *[cm]*
max length	46.5 *[cm]*

male	504
female	514
undefined	1270
total numbers of data	2289

Trachurus trachurus *March*

Geographical distribution of data used for calculating the length-weight relationship

Trachurus trachurus — *March*

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **= 0.0073**

b **= 2.9946**

data collected

time period : 1994 - 2007

data source : research vessel, commercial trawler

numbers of data:

Quarter			
1	2	3	4
769	-	-	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
-	-	**769**	-	-	-	-	-	-	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**2**	-	**159**	**608**	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**2**	-	-	-	-	**159**	-	-	**386**	**23**	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	**199**	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea									NAFO								
1	2	3	4	5	6	7	8	9	1A	1B	1C	1D	1E	1F	2G	2H	2J
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	15.5 *[cm]*
max length	40.5 *[cm]*

male	361
female	340
undefined	68
total numbers of data	769

Trachurus trachurus *Quarter 2*

Geographical distribution of data used for calculating the length-weight relationship

Trachurus trachurus

Quarter: **2**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0068**

b **=** **3.0168**

data collected

time period : **1994 - 2007**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
-	**2030**	-	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	**1981**	**36**	**13**	-	-	-	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**49**	-	-	**1596**	**385**	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**4**	**45**	-	-	-	-	-	-	**245**	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	**271**	**1080**	-	**325**	**7**	**34**	**19**	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
-	**1**	**3**	**1**	-	**42**	**2**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 12.5 *[cm]*

max length 40.5 *[cm]*

male	930
female	906
undefined	194
total numbers of data	2030

Trachurus trachurus *April*

Geographical distribution of data used for calculating the length-weight relationship

Trachurus trachurus *April*

$Tw_{[g]} = a * L_{[cm]}^{b}$

a = 0.0082

b = 2.9564

data collected

time period : 1998 - 2007

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
-	**1981**	-	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	**1981**	-	-	-	-	-	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	-	-	-	**1596**	**385**	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**245**	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	**271**	**1080**	-	**325**	**7**	**34**	**19**	-	-	-	-	-	-	-

Roundfisharea									NAFO								
1	2	3	4	5	6	7	8	9	1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	12.5 *[cm]*
max length	40.5 *[cm]*

male	930
female	906
undefined	145
total numbers of data	1981

Trachurus trachurus *May*

Geographical distribution of data used for calculating the length-weight relationship

Trachurus trachurus *May*

$Tw_{[g]} = a * L_{[cm]}^{b}$

a = 0.0099

b = 2.9721

data collected

time period : 1994 - 2005

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
-	**37**	-	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	**37**	-	-	-	-	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**37**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**1**	**36**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea									NAFO								
1	2	3	4	5	6	7	8	9	1A	1B	1C	1D	1E	1F	2G	2H	2J
-	**1**	-	**1**	-	**35**	-	-	-	-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 21.5 *[cm]*

max length 39.5 *[cm]*

male	-
female	-
undefined	37
total numbers of data	37

Trachurus trachurus *June*

Geographical distribution of data used for calculating the length-weight relationship

Trachurus trachurus *June*

$Tw_{[g]} = a * L_{[cm]}^{b}$

a = 0.0021

b = 3.4271

data collected

time period : 1994 - 2005

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
-	**14**	-	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	-	**14**	-	-	-	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**14**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**3**	**11**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea									NAFO								
1	2	3	4	5	6	7	8	9	1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	**3**	-	-	**9**	**2**	-	-	-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 21.5 *[cm]*

max length 39.5 *[cm]*

male	-
female	-
undefined	14
total numbers of data	14

Trachurus trachurus *Quarter 3*

Geographical distribution of data used for calculating the length-weight relationship

Trachurus trachurus

Quarter: **3**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **= 0.0125**

b **= 0.9076**

data collected

time period : 1994 - 2007

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
-	-	**886**	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	-	-	**498**	**367**	**21**	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**886**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**98**	**782**	**6**	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea									NAFO								
1	2	3	4	5	6	7	8	9	1A	1B	1C	1D	1E	1F	2G	2H	2J
42	**77**	**50**	**40**	**7**	**547**	**123**	-	-	-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	4.5 *[cm]*
max length	41.5 *[cm]*

male	283
female	285
undefined	318
total numbers of data	886

Trachurus trachurus *July*

Geographical distribution of data used for calculating the length-weight relationship

Trachurus trachurus *July*

$Tw_{[g]} = a * L_{[cm]}^{b}$

a = 0.0165

b = 2.8229

data collected

time period : 1994 - 2006

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
-	-	**491**	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	-	-	**491**	-	-	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**491**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**45**	**440**	**6**	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea									NAFO								
1	2	3	4	5	6	7	8	9	1A	1B	1C	1D	1E	1F	2G	2H	2J
27	**20**	**17**	**1**	**7**	**335**	**84**	-	-	-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	4.5 *[cm]*
max length	40.5 *[cm]*

male	184
female	172
undefined	135
total numbers of data	491

Trachurus trachurus *August*

Geographical distribution of data used for calculating the length-weight relationship

Trachurus trachurus — *August*

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **= 0.0118**

b **= 2.9306**

data collected

time period : 1995 - 2006

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
-	-	**350**	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	-	-	-	**350**	-	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**350**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**38**	**312**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea									NAFO								
1	2	3	4	5	6	7	8	9	1A	1B	1C	1D	1E	1F	2G	2H	2J
14	**56**	**19**	**22**	-	**207**	**32**	-	-	-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	4.5 *[cm]*
max length	41.5 *[cm]*

male	99
female	113
undefined	138
total numbers of data	350

Trachurus trachurus *September*

Geographical distribution of data used for calculating the length-weight relationship

Trachurus trachurus — *September*

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* =** **0.0112**

***b* =** **2.9286**

data collected

time period : 1997 - 2006

data source : research vessel

numbers of data:

Quarter

1	2	3	4
-	-	**56**	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	-	-	-	-	**56**	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**56**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**8**	**48**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
-	-	**8**	**12**	-	**35**	**1**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 4.5 *[cm]*

max length 39.5 *[cm]*

male	-
female	-
undefined	56
total numbers of data	56

Trachurus trachurus *Quarter 4*

Geographical distribution of data used for calculating the length-weight relationship

Trachurus trachurus

Quarter: **4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **= 0.0079**

b **= 3.0199**

data collected

time period : 1994 - 2006

data source : commercial trawler, research vessel

numbers of data:

Quarter

1	2	3	4
-	-	-	**4711**

Month

1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	-	-	-	-	-	**3447**	**928**	**336**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**38**	-	-	**4303**	**370**	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	-	**38**	-	-	-	-	-	-	-	-	**1325**	**1469**	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	**1509**	-	-	**370**	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
-	**3**	**1**	-	-	**34**	-	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	7.5 *[cm]*	**male**	1378
max length	40.5 *[cm]*	**female**	1550
		undefined	1783
		total numbers of data	4711

Trachurus trachurus *October*

Geographical distribution of data used for calculating the length-weight relationship

Trachurus trachurus — *October*

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **= 0.0067**

b **= 3.0818**

data collected

time period : 2001 - 2005

data source : commercial trawler, research vessel

numbers of data:

Quarter			
1	2	3	4
-	-	-	**3447**

Month											
1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	-	-	-	-	-	**3447**	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**1**	-	-	**3446**	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	-	**1**	-	-	-	-	-	-	-	-	**1325**	**1469**	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	**652**	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea									NAFO								
1	2	3	4	5	6	7	8	9	1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	**1**	-	-	-	-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	14.5 *[cm]*
max length	40.5 *[cm]*

male	1055
female	1182
undefined	1210
total numbers of data	3447

Trachurus trachurus *November*

Geographical distribution of data used for calculating the length-weight relationship

Trachurus trachurus *November*

$Tw_{[g]} = a * L_{[cm]}^{b}$

a = 0.0137

b = 2.8256

data collected

time period : 1994 - 2006

data source : commercial trawler, research vessel

numbers of data:

Quarter			
1	2	3	4
-	-	-	**928**

Month											
1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	-	-	-	-	-	-	**928**	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**15**	-	-	**685**	**228**	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	-	**15**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	**685**	-	-	**228**	-	-	-	-	-	-	-	-	-	-

Roundfisharea									NAFO								
1	2	3	4	5	6	7	8	9	1A	1B	1C	1D	1E	1F	2G	2H	2J
-	**3**	**1**	-	-	**11**	-	-	-	-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	7.5 *[cm]*
max length	36.5 *[cm]*

male	249
female	330
undefined	349
total numbers of data	928

Trachurus trachurus *December*

Geographical distribution of data used for calculating the length-weight relationship

Trachurus trachurus — *December*

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **= 0.0086**

b **= 2.9778**

data collected

time period : 1994 - 2006

data source : research vessel, commercial trawler

numbers of data:

Quarter			
1	2	3	4
-	-	-	**336**

Month											
1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	-	-	-	-	-	-	-	**336**

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**22**	-	-	**172**	**142**	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	-	**22**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	**172**	-	-	**142**	-	-	-	-	-	-	-	-	-	-

Roundfisharea									NAFO								
1	2	3	4	5	6	7	8	9	1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	**22**	-	-	-	-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	7.5 *[cm]*	**male**	74
max length	37.5 *[cm]*	**female**	38
		undefined	224
		total numbers of data	336

Trigla lucerna

Geographical distribution of data used for calculating the length-weight relationship

Trigla lucerna

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0151**

b **=** **2.8814**

data collected

time period : **1994 - 2008**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
18	**90**	**326**	**71**

Month

1	2	3	4	5	6	7	8	9	10	11	12
6	**9**	**3**	**2**	**69**	**19**	**64**	**228**	**34**	**12**	**26**	**33**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**502**	-	-	**2**	**1**	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**8**	**494**	-	-	-	-	-	-	-	**1**	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	**1**	-	-	-	**1**	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
3	**4**	**6**	**4**	**2**	**461**	**22**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	4.5 *[cm]*
max length	50.5 *[cm]*

male	-
female	1
undefined	504
total numbers of data	505

Trisopterus esmarki

Geographical distribution of data used for calculating the length-weight relationship

Trisopterus esmarki

Quarter: **1 - 3**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0045**

b **=** **3.1484**

data collected

time period : **1995 - 2008**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
775	**7**	**269**	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
423	**346**	**6**	**1**	**2**	**4**	**136**	**130**	**3**	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	**1**	-	**1044**	-	**2**	**4**	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	**1**	-	-	-	-	-	**729**	**315**	-	-	-	**2**	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	**4**	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
455	**163**	**349**	**32**	-	**17**	**28**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	5.5 *[cm]*
max length	22.5 *[cm]*

male	361
female	432
undefined	258
total numbers of data	1051

Trisopterus esmarki ♀

Geographical distribution of data used for calculating the length-weight relationship

Trisopterus esmarki ♀

Quarter: 1 ; 3

(female)

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* = 0.0039**

***b* = 3.2015**

data collected

time period : 2004 - 2009

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
613	-	**59**	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
313	**300**	-	-	-	-	**17**	**42**	-	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**672**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**504**	**168**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea									NAFO								
1	2	3	4	5	6	7	8	9	1A	1B	1C	1D	1E	1F	2G	2H	2J
336	**137**	**199**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 9.5 *[cm]*

max length 22.5 *[cm]*

male	-
female	672
undefined	-
total numbers of data	672

Trisopterus esmarki ♂

Geographical distribution of data used for calculating the length-weight relationship

Trisopterus esmarki ♂

Quarter: 1 ; 3

(male)

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* = 0.0069**

***b* = 2.9786**

data collected

time period : 1999 - 2009

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
526	-	**24**	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
265	**261**	-	-	-	-	**3**	**21**	-	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**550**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**418**	**132**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea									NAFO								
1	2	3	4	5	6	7	8	9	1A	1B	1C	1D	1E	1F	2G	2H	2J
262	**91**	**196**	-	-	**1**	-	-	-	-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 8.5 *[cm]*

max length 21.5 *[cm]*

male	550
female	-
undefined	-
total numbers of data	550

Trisopterus esmarki *Quarter 1*

Geographical distribution of data used for calculating the length-weight relationship

Trisopterus esmarki

Quarter: **1**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0047**

b **=** **3.1254**

data collected

time period : **1995 - 2008**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
775	-	-	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
423	**346**	**6**	-	-	-	-	-	-	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	**1**	-	**769**	-	**2**	**3**	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	**1**	-	-	-	-	-	**535**	**234**	-	-	-	**2**	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	**3**	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
324	**140**	**288**	-	-	**10**	**7**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	7.5 *[cm]*	**male**	337
max length	22.5 *[cm]*	**female**	373
		undefined	65
		total numbers of data	775

Trisopterus esmarki *January*

Geographical distribution of data used for calculating the length-weight relationship

Trisopterus esmarki — *January*

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0057**

b **=** **3.0558**

data collected

time period : **1995 - 2008**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
423	-	-	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
423	-	-	-	-	-	-	-	-	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**423**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**195**	**228**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
171	**135**	**101**	-	-	**10**	**6**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	8.5 *[cm]*
max length	22.5 *[cm]*

male	193
female	196
undefined	34
total numbers of data	423

Trisopterus esmarki *February*

Geographical distribution of data used for calculating the length-weight relationship

Trisopterus esmarki — *Februrary*

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **= 0.0039**

b **= 3.1935**

data collected

time period : 1999 - 2007

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
346	-	-	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
-	**346**	-	-	-	-	-	-	-	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**346**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**340**	**6**	-	-	-	-	-	-	-	-	-	-	-
7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B					
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					

Roundfisharea									NAFO								
1	2	3	4	5	6	7	8	9	1A	1B	1C	1D	1E	1F	2G	2H	2J
153	**5**	**187**	-	-	-	**1**	-	-	-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	7.5 *[cm]*	**male**	144
max length	22.5 *[cm]*	**female**	177
		undefined	25
		total numbers of data	346

Trisopterus esmarki *Quarter 3*

Geographical distribution of data used for calculating the length-weight relationship

Trisopterus esmarki

Quarter: **3**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0048**

b **=** **3.1515**

data collected

time period : **1995 - 2007**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
-	-	**269**	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	-	-	**136**	**130**	**3**	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**269**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**193**	**76**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
131	**20**	**60**	**32**	-	**6**	**20**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	5.5 *[cm]*
max length	21.5 *[cm]*

male	24
female	59
undefined	186
total numbers of data	269

Trisopterus esmarki *July*

Geographical distribution of data used for calculating the length-weight relationship

Trisopterus esmarki *July*

$Tw_{[g]} = a * L_{[cm]}^{b}$

a = 0.0043

b = 3.1932

data collected

time period : 1995 - 2007

data source : research vessel

numbers of data:

Quarter			
1	2	3	4
-	-	**136**	-

Month											
1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	-	-	**136**	-	-	-	-	-

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**136**	-	-	-	-	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**94**	**42**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea									NAFO								
1	2	3	4	5	6	7	8	9	1A	1B	1C	1D	1E	1F	2G	2H	2J
81	**11**	**13**	**11**	-	**4**	**16**	-	-	-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	5.5 *[cm]*
max length	21.5 *[cm]*

male	3
female	17
undefined	116
total numbers of data	136

Trisopterus esmarki *August*

Geographical distribution of data used for calculating the length-weight relationship

Trisopterus esmarki — *August*

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **= 0.005**

b **= 3.1365**

data collected

time period : 1999 - 2007

data source : research vessel

numbers of data:

Quarter

1	2	3	4
-	-	**130**	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	-	-	-	**130**	-	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**130**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**99**	**31**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
50	**8**	**47**	**20**	-	**2**	**3**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	5.5 *[cm]*
max length	20.5 *[cm]*

male	21
female	42
undefined	67
total numbers of data	130

Trisopterus luscus

Geographical distribution of data used for calculating the length-weight relationship

Trisopterus luscus

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0102**

b **=** **3.0277**

data collected

time period : **1994 - 2007**

data source : **research vessel**

numbers of data:

Quarter			
1	2	3	4
78	**79**	**35**	**64**

Month											
1	2	3	4	5	6	7	8	9	10	11	12
62	**16**	-	**9**	**52**	**18**	**14**	**20**	**1**	**3**	**30**	**31**

Subarea											
1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**252**	-	-	**2**	**2**	-	-	-	-

Division																			
1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**9**	**237**	**6**	-	-	-	-	-	-	-	-	**1**	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	**1**	-	-	**2**	-	-	-	-	-	-	-	-	-

Roundfisharea									NAFO								
1	2	3	4	5	6	7	8	9	1A	1B	1C	1D	1E	1F	2G	2H	2J
1	**43**	**9**	**8**	**6**	**181**	**4**	-	-	-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	4.5 *[cm]*	**male**	30
max length	35.5 *[cm]*	**female**	24
		undefined	202
		total numbers of data	256

Trisopterus minutes

Geographical distribution of data used for calculating the length-weight relationship

Trisopterus minutus

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.004**

b **=** **3.275**

data collected

time period : **1994 - 2008**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
385	**119**	**166**	**27**

Month

1	2	3	4	5	6	7	8	9	10	11	12
111	**260**	**14**	**7**	**69**	**43**	**90**	**71**	**5**	**2**	**12**	**13**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**686**	-	**1**	**8**	**2**	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**357**	**319**	**10**	-	-	**1**	-	-	**1**	**1**	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
1	-	**5**	-	**1**	-	-	**1**	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
195	**35**	**162**	**34**	**10**	**173**	**77**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	8.5 *[cm]*	**male**	25
max length	24.5 *[cm]*	**female**	31
		undefined	641
		total numbers of data	697

Trisopterus minutus *Quarter 1*

Geographical distribution of data used for calculating the length-weight relationship

Trisopterus minutus

Quarter: **1**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0032**

b **=** **3.3595**

data collected

time period : **1994 - 2008**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
385	-	-	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
111	**260**	**14**	-	-	-	-	-	-	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**378**	-	**1**	**5**	**1**	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**309**	**67**	**2**	-	-	**1**	-	-	-	**1**	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
1	-	**3**	-	**1**	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
189	**18**	**118**	-	-	**41**	**12**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 8.5 *[cm]*

max length 24.5 *[cm]*

male -

female -

undefined 385

total numbers of data 385

Trisopterus minutus *January*

Geographical distribution of data used for calculating the length-weight relationship

Trisopterus minutus — *January*

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* =** **0.0029**

***b* =** **3.3963**

data collected

time period : 1994 - 2007

data source : research vessel

numbers of data:

Quarter

1	2	3	4
111	-	-	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
111	-	-	-	-	-	-	-	-	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**111**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**66**	**43**	**2**	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
26	**6**	**38**	-	-	**32**	**9**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **1/2 cm below, cm below**

min length 9.25 *[cm]*

max length 23.75 *[cm]*

male	-
female	-
undefined	111
total numbers of data	111

Trisopterus minutus *February*

Geographical distribution of data used for calculating the length-weight relationship

Trisopterus minutus — *February*

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* =** **0.0031**

***b* =** **3.3628**

data collected

time period : 1994 - 2008

data source : research vessel

numbers of data:

Quarter

1	2	3	4
260	-	-	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
-	**260**	-	-	-	-	-	-	-	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**260**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**237**	**23**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
159	**12**	**77**	-	-	**9**	**3**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 8.5 *[cm]*

max length 24.5 *[cm]*

male	-
female	-
undefined	260
total numbers of data	260

Trisopterus minutus *Quarter 2*

Geographical distribution of data used for calculating the length-weight relationship

Trisopterus minutus

Quarter: **2**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0082**

b **=** **3.0006**

data collected

time period : **1994 - 2007**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
-	**119**	-	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	**7**	**69**	**43**	-	-	-	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**115**	-	-	**3**	**1**	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**8**	**107**	-	-	-	-	-	-	**1**	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	**2**	-	-	-	-	**1**	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
2	**9**	**6**	**11**	-	**43**	**44**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	8.5 *[cm]*
max length	24.5 *[cm]*

male	25
female	31
undefined	63
total numbers of data	119

Trisopterus minutus *Quarter 3*

Geographical distribution of data used for calculating the length-weight relationship

Trisopterus minutus

Quarter: **3**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0072**

b **=** **3.0566**

data collected

time period : **1994 - 2007**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
-	-	**166**	-

Month

1	2	3	4	5	6	7	8	9	10	11	12
-	-	-	-	-	-	**90**	**71**	**5**	-	-	-

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**166**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**40**	**118**	**8**	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
4	**8**	**35**	**23**	**10**	**65**	**21**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length 8.5 *[cm]*

max length 21.5 *[cm]*

male	-
female	-
undefined	166
total numbers of data	166

Zeus faber

Geographical distribution of data used for calculating the length-weight relationship

Zeus faber

Quarter: **1 - 4**

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

a **=** **0.0134**

b **=** **3.0526**

data collected

time period : **1962 - 2008**

data source : **research vessel**

numbers of data:

Quarter

1	2	3	4
117	**41**	**19**	**7**

Month

1	2	3	4	5	6	7	8	9	10	11	12
25	**33**	**59**	**35**	**3**	**3**	**9**	**10**	-	-	**6**	**1**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**86**	-	**41**	**46**	**11**	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	**63**	**22**	**1**	-	-	**41**	-	-	**5**	-	-	**2**	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	**4**	**35**	-	**9**	**1**	-	**1**	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
23	**6**	**45**	**1**	-	**7**	**4**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **cm below**

min length	9.5 *[cm]*
max length	52.5 *[cm]*

male	41
female	-
undefined	143
total numbers of data	184

Zoarces viviparus

Geographical distribution of data used for calculating the length-weight relationship

Zoarces viviparus

Quarter: 1 - 4

$$Tw_{[g]} = a * L_{[cm]}^{\,b}$$

***a* = 0.0047**

***b* = 3.0241**

data collected

time period : 1990 - 2007

data source : research vessel

numbers of data:

Quarter

1	2	3	4
67	**101**	**120**	**33**

Month

1	2	3	4	5	6	7	8	9	10	11	12
45	**12**	**10**	**31**	**52**	**18**	**23**	**34**	**63**	**17**	**12**	**4**

Subarea

1	2	3	4	5	6	7	8	9	10	12	14
-	-	-	**321**	-	-	-	-	-	-	-	-

Division

1	2A	2B	3A	3B	3C	3D	4A	4B	4C	5A	5B	6A	6B	7A	7B	7C	7D	7E	7F
-	-	-	-	-	-	-	-	**321**	-	-	-	-	-	-	-	-	-	-	-

7G	7H	7J	7K	8A	8B	8C	8D	8E	9A	9B	10	12	14A	14B
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Roundfisharea

1	2	3	4	5	6	7	8	9
-	-	-	-	-	**320**	**1**	-	-

NAFO

1A	1B	1C	1D	1E	1F	2G	2H	2J
-	-	-	-	-	-	-	-	-

Method of Measurement

- **Total length**
- **1/2 cm below, cm below**

min length 4.75 *[cm]*

max length 26.5 *[cm]*

male	-
female	-
undefined	321
total numbers of data	321

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