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Stock Abundance Indices and Length Compositions of Demersal Redfish and Other Finfish in NAFO Sub-area 1 and near bottom water temperature derived from the German bottom trawl survey 1982-2010 with particular reference to GLM survey standardization

by

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# Abstract

Survey abundance, biomass estimates and length compositions for golden and deep sea redfish  $\geq 17$  cm (*Sebastes marinus* and *S. mentella*), juvenile redfish <17 cm, American plaice (*Hippoglossoides platessoides*), Atlantic and spotted wolfish (*Anarhichas lupus* and *A. minor*) and thorny skate (*Raja radiata*) in Division 1C to 1F are presented. In 2010, time series for the indices were calculated based on exact swept areas. For golden redfish, American plaice and both species of wolffishes, stocks sizes have declined significantly until the early 1990s and remained at a low level since until 2000. Since then, abundances increased only slightly and for 2010, indices are well below the average values from the 1980's. For thorny skate, abundances increased in the early 1990s and for deep-sea redfish in the late 1990s. All upward trends observed until 2004-2007 have declined in 2008 and 2009. But for 2010, the declining trend was reversed for all species considered. For thorny skate, the lowest biomass estimate for the whole times series was found in 2009. All stocks considered are presently composed of small and mainly juvenile specimens except for spotted wolffish. Near bottom water temperature continued to be high (since 1996). The former maximum of the time series observed in 2003 (5.28 °C) was superseded by the 2010 value (5.42 °C).

# 1 Introduction

This paper presents estimates of stock abundance and biomass indices disaggregated by length as derived from annual German groundfish surveys for golden and deep sea redfish  $\geq 17$  cm (*Sebastes marinus* and *S. mentella*), juvenile redfish <17 cm, American plaice (*Hippoglossoides platessoides*), Atlantic and spotted wolfish (*Anarhichas lupus* and *A. minor*) and thorny skate (*Raja radiata*). The surveys commenced in 1982 and represent the longest time series of quantitative information from the traditional fishing grounds off West Greenland south of 67° northern latitude. Environmental conditions are reflected as trends in near bottom water temperatures. The information is presented as an update of continued analyses of the survey results (Rätz, 1999; Rätz and Stransky, 2003.)

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## 2 Materials and Methods

Abundance, biomass estimates and length structures were derived from annual groundfish surveys covering shelf areas and the continental slope off West Greenland. Surveys commenced in 1982 and were primarily designed for the assessment of cod. Because of favourable weather and ice conditions and to avoid spawning concentrations, autumn was chosen for the time of the surveys. These were carried out by the research vessel (R/V) WALTHER HERWIG (II) throughout most of the time period. In 1984 R/V ANTON DOHRN was used and she was replaced by the new R/V WALTHER HERWIG III since 1994, respectively.

The surveys were primarily designed for the assessment of cod. In order to reduce the error of abundance estimates, the subdivision of shelf areas and the continental slope into different geographic and depth strata was required due to a pronounced heterogeneity of cod distribution. The survey area was thus split into four geographic strata. Each stratum was itself subdivided into two depth strata covering the 0-200 m and 201-400 m zones. Figure 1 and Table 2 indicate the names of the 8 strata, their geographic boundaries, depth ranges and areas in nautical square miles (nm2). All strata were limited at the 3 mile offshore line.

The applied strategy was to distribute the sampling effort according both to the stratum areas and to cod abundance. Consequently, fifty percent of the hauls were allocated proportionally to strata by stratum area while the other fifty percent were apportioned on the basis of a review of the historical mean cod abundance/nm<sup>2</sup>, all hauls being randomly distributed within trawlable areas of the various strata. Non-trawlable areas were mainly located inshore. During 1982-2002, 1 697 successful sets were carried out, the numbers of valid sets by year and stratum being listed in Table 3. In 1995 and since 2001, the survey area off West Greenland was incompletely covered due to technical problems. Only 75 % of the strata of West Greenland were covered in 2005. Figure 1 shows the positions of hauls conducted during the most recent survey.

The fishing gear used was a standardized 140-feet bottom trawl, its net frame rigged with heavy ground gear because of the rough nature of the fishing grounds. A small mesh liner (10mm) was used inside the cod end. The horizontal distance between wing-ends was 25 m at 300 m depth, the vertical net opening being 4 m. In 1994, smaller Polyvalent doors (4.5 m<sup>2</sup>, 1,500 kg) were used for the first time to reduce net damages due to overspread caused by bigger doors (6 m<sup>2</sup>, 1,700 kg), which have been used earlier. Fish were identified to species or lowest taxonomic level and the catch in number and weight was recorded. Total fish lengths were measured to cm below.

Hauls, which received net damage or became hang-up after less than 15 minutes, were rejected. Some hauls of the 1987 and 1988 surveys were also included although their towing time had been intentionally reduced to 10 minutes because of the expected large cod catches as observed from echo sounder traces. The coefficient of catchability was set arbitrarily at 1.0, implying that estimates are merely indices of abundance and biomass. The towing time was normally 30 min. at a speed of 4.5 knots (Table1). Stratified abundance estimates were calculated from catch-pertow data using the stratum areas as weighting factor for the arithmetic means (Cochran, 1953; Saville, 1977). All calculations of abundance and biomass indices were based on the 'swept area' method using 22 m horizontal net opening as trawl parameter, i. e. the constructional width specified by the manufacturer.

In previous years, the conversion of catch-per-tow ( $C_{tow}$ ) to catch per nautical square mile  $C_{sqnm}$  was achieved by using towing time:

C<sub>sanm</sub>=C<sub>tow</sub>\*30 minutes/trawled time\*84.1616/2.25

Henceforth, catch is related to the actual distance trawled and thus directly linked to the area swept:

#### C<sub>sqnm</sub>=C<sub>tow</sub>/distance \*84.1616

Respective confidence intervals (CI) were set at the 95% level of significance of the stratified mean.

Near bottom water temperature was measured directly before or after a trawl haul be means of a CTD sonde.

#### 3 Survey standardization

Strata with less than five valid sets were rejected from the calculation of biomass and abundance indices.

(1) To account for missing strata, a further experimental General Linear Model (GLM) index was calculated for biomass assuming multiplicative effects of year and stratum on biomass, which implies log-transformation of the catch data C. The GLM delivers standardized survey estimates by year and stratum:

 $\log (C_{tow}+1) = \alpha + \beta 1$  year +  $\beta 2$  stratum + e (=a)

Accordingly, residuals are assumed log-normally distributed. Specific treatment of zero catches is required (here: unit value is added to every catch datum) and backtransformation to the stratum mean follows

 $C_{\text{stratum, year}} = \exp(a + b/2) - 1$ 

where a is the mean by stratum and year and b is the corresponding stratum variance. Using the stratum variance improved the performance of the GLM considerably as compared to cases when the variance of the mean was applied. The addition of b/2 accounts partly for negative bias due to log-transformation. Though the addition and subtraction of unit value to the catch prior to transformation is incorrect, for catch rates the application of the log-normal model is likely more realistic than the gamma model (Venables and Dichmont 2004).

GLM estimates depend on matrix decomposition procedures and thus estimates change as the length of time series increases. This may be seen as retrospective pattern for this type of analysis. Figure A shows the respective figure *A*. *minor*. The pattern becomes weaker as the length of time series increases.



Fig. A GLM with different time series length indicate the degree of retrospective pattern, here for *Anarhichas minor*. Numbers indicate time series length in years.

(2) Three other models were tested. A gamma model proved to be less sensitive (not shown). The second model was based on the SAS SURVEYREG procedure using strata as class variables and year as variable defining unequally distributed subsamples to account for changing sample sizes between years with log+1 transformed data and subsequent backtransformation. Many SAS/STAT procedures, such as the MEANS and GLM procedures, can compute sample means and estimate regression relationships. However, in most of these procedures, statistical inference is based on the assumption that the sample is drawn from an infinite population by simple random sampling. If the sample is actually selected from a finite population using a complex design, these procedures

generally do not calculate the estimates and their variances correctly. The SURVEYREG procedures does properly analyze survey data, taking into account the sample design. These procedures use the Taylor expansion method to estimate sampling errors of estimators based on complex sample designs. This method obtains a linear approximation for the estimator and then uses the variance estimate for this approximation to estimate the variance of the estimate itself. When the design is stratified, the procedures pool stratum variance estimates to compute the overall variance estimate (SAS 2010).

(3) Third model tested was a generalized linear model applying the negative binomial distribution as error distribution in conjunction with a log link function for the dependent variable.

Table A shows, that on average GLM had the closest fit to the traditional survey index thus providing the most conservative estimate of a standardized index.

| Table A : Deviation    | statistics  | of thr | ee standardization | models | in | relation | to | the | survey | index | (Biomass, | *10³). |
|------------------------|-------------|--------|--------------------|--------|----|----------|----|-----|--------|-------|-----------|--------|
| Smaller values indicat | te a better | fit.   |                    |        |    |          |    |     |        |       |           |        |

| Species           | GLM  | Negative binomial with | SURVEYREG with   |
|-------------------|------|------------------------|------------------|
|                   |      | log link function      | TAYLOR expansion |
| Raja radiata      | 13.5 | 38.7                   | 15.7             |
| Sebastes marinus  | 73.4 | 70.6                   | 116.5            |
| Sebastes mentella | 17.4 | 52.3                   | 21.1             |
| Hippoglossoides   | 40.1 | 63.6                   | 47.4             |
| platessoides      |      |                        |                  |
| Anarhichas lupus  | 36.3 | 60.0                   | 44.6             |
| Anarhichas minor  | 18.8 | 42.6                   | 29.6             |

# Results

Fig. 1 displays the coverage of the survey area by the geographical haul distribution in 2007.

The abundance and biomass indices by stratum of *S. marinus*  $\geq 17$  cm is given in Table 3 and illustrated in Figure 2. The stock is indicated to be depleted since the early 1990s. Since 2002 a slight increase was observed. However, in 2008 all indices (abundance, biomass, GLM) showed a downward trend again, but increased in 2010. Thus, recovery back to historical levels does not appear. Both incoming year classes (specimens < 20 cm) and larger specimens (>40 cm) were more frequently encountered than in previous years (Table 4, Fig. 3).

Table 5 lists the abundance and biomass indices of *S. mentella*  $\geq$  17 cm by stratum, the values being presented in Figure 4. Abundance peaked in 1997. Since then, three further years with high abundances have been recorded including 2006. Since 2006, abundance declined but the trend was halted in 2010.

In 2008, the length distribution was multi-modal with peaks at 17 cm, 22 cm, 26 cm, 31 cm, 35 cm. This indicates several year classes present, however at low abundances each (Fig. 5 and Table 6). In 2010, peaks appeared at 19 cm, 24 cm, 28 cm and 35 cm. Assuming that the 2010 peaks correspond to those of 2008 indicates a slow growth of 1-2 cm per year. This is less than for *S. mentella* observed at Flemish Cap (Saborido-Rey et al. 2004) but comparable to VBGF results from the Irminger Sea(Stransky et al. 2005). It must be noted, that the survey design hardly covers the distribution area of deep sea redfish, and the survey results should be carefully interpreted. Larger fish are likely to replenish the pelagic stock of *S. mentella*.

The abundance of juvenile redfish <17 cm *Sebastes spp*. has varied over a wide range since 1982. The recent index is among the lowest observed since 1982 (Fig. 6 and Table 7). The length composition revealed no strong peaks, so that at present age classes 0, 1 and 2 are only weakly represented in the autumn survey (Fig. 7 and Table 8).

Abundance and biomass of American plaice *Hippoglossoides platessoides* significantly declined since the late 1980s but increased slightly since 2002 - 2004 (Fig. 8 and Table 9). Since then, a decline is evident in survey index and GLM index. In 2010, in particular small specimen's (< 20 cm) were caught in the survey, resulting in an increase in

survey abundance halting the decline trend (Figure 9 and listed in Table 10). The catchability of flatfish by the survey gear is considered poor but the time series seems is deemed appropriate to indicate the trend of the stock.

With regard to biomass index, Atlantic wolfish *Anarhichas lupus* has recovered slightly after 2002 but still is below historical stock levels and is declining since 2004 (Fig. 10 and Table 11). In 2010, both biomass and abundance increased. As in 2009, the length distribution for 2010 revealed strong presence of 0-group specimens at a length of 6-7 cm (Figure 11). Table 12 shows that since 1998 the share of specimens larger than 40 cm has increased until 2005 but decreased since then.

The abundance and biomass of spotted wolfish *Anarhichas minor* decreased significantly until 1992 (Fig. 12 and Table 13). From 2000 to 2007, stock size increased in terms of biomass, but decreased in 2008 and 2009. An increase was revealed for 2010. The size distribution is scattered as a result of low catch rates and high variation in body length (Fig. 13 and Table 14).

Both abundance and biomass indices of thorny skate *Raja radiata* are recently very low compared to the values estimated during the 1980s and early 1990s (Fig. 14 and Table 15). For 2009, the GLM index indicates the lowest biomass value in the time series since 1982. However, in 2009 a significant number of 0-groupspecimens at a size of ca 10 cm TL was indicated. As in previous years, size composition was dominated by small specimens below 25 cm body length (Fig. 15 and Table 16).

Trends in near bottom temperature means by stratum and stratified mean temperature are listed in Table 2, 17 and shown in Figure 16. Near bottom water temperature continued to be high (since 1996). The former maximum of the time series observed in 2003 (5.28 °C) was superseded by the 2010 value (5.42 °C). The stratum mean temperatures show a significant depth effect, with the colder temperatures measured in the shallow strata (<200 m). Deeper strata are generally warmer by about 1-2°C.

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Table 1 Trawl parameters of the German bottom trawl survey off West Greenland.

|                             | German survey         |
|-----------------------------|-----------------------|
| Gear                        | 140-feet bottom trawl |
| Horizontal net opening      | 22 m                  |
| Standard trawling speed     | 4.5 kn                |
| Towing time                 | 30 minutes            |
|                             |                       |
| Coefficient of catchability | 1.0                   |

Tab. 2 Survey areas and effort (hauls) of the German bottom trawl survey off West Greenland by stratum and bottom water temperatures, 1982-2010. Strata 1.1 - 4.2 refer to West Greenland, corresponding NAFO SA's indicated.

|         | 1C  |     | 1D  |     | 1E  |     | 1F  |     |     |     |     | East | Green | land |     |      |               |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-------|------|-----|------|---------------|
| Stratum | 1.1 | 1.2 | 2.1 | 2.2 | 3.1 | 3.2 | 4.1 | 4.2 | 5.1 | 5.2 | 6.1 | 6.2  | 7.1   | 7.2  | Sum | YEAR | Temp.<br>(°C) |
|         | 20  | 11  | 16  | 7   | 9   | 6   | 13  | 2   | 1   | 10  | 3   | 12   | 1     | 25   | 136 | 1982 | 2.97          |
|         | 26  | 11  | 25  | 11  | 17  | 5   | 18  | 4   | 3   | 19  | 10  | 36   | 0     | 18   | 203 | 1983 | 2.75          |
|         | 25  | 13  | 26  | 8   | 18  | 6   | 21  | 4   | 5   | 4   | 2   | 8    | 0     | 5    | 145 | 1984 | 2.46          |
|         | 10  | 8   | 26  | 10  | 17  | 5   | 21  | 4   | 5   | 21  | 14  | 50   | 0     | 28   | 219 | 1985 | 4.10          |
|         | 27  | 9   | 21  | 9   | 16  | 7   | 18  | 3   | 3   | 15  | 14  | 37   | 1     | 34   | 214 | 1986 | 4.06          |
|         | 25  | 11  | 21  | 4   | 18  | 3   | 21  | 3   | 19  | 16  | 13  | 40   | 0     | 18   | 212 | 1987 | 3.70          |
|         | 34  | 21  | 28  | 5   | 18  | 5   | 18  | 2   | 21  | 8   | 13  | 39   | 0     | 26   | 238 | 1988 | 3.84          |
|         | 26  | 14  | 30  | 9   | 8   | 3   | 25  | 3   | 17  | 18  | 12  | 29   | 0     | 11   | 205 | 1989 | 4.20          |
|         | 19  | 7   | 23  | 8   | 16  | 3   | 21  | 6   | 18  | 19  | 6   | 15   | 0     | 13   | 174 | 1990 | 3.43          |
|         | 19  | 11  | 23  | 7   | 12  | 6   | 14  | 5   | 8   | 11  | 10  | 28   | 0     | 16   | 170 | 1991 | 3.57          |
|         | 6   | 6   | 6   | 5   | 6   | 6   | 7   | 5   | 0   | 0   | 0   | 0    | 0     | 6    | 53  | 1992 | 3.49          |
|         | 9   | 6   | 9   | 6   | 10  | 8   | 7   | 0   | 9   | 6   | 6   | 18   | 0     | 14   | 108 | 1993 | 3.70          |
|         | 16  | 13  | 13  | 8   | 10  | 6   | 7   | 5   | 0   | 0   | 0   | 0    | 0     | 6    | 84  | 1994 | 3.52          |
|         | 0   | 0   | 3   | 0   | 10  | 7   | 10  | 5   | 8   | 6   | 6   | 17   | 0     | 12   | 84  | 1995 | 3.96          |
|         | 5   | 5   | 8   | 5   | 12  | 5   | 10  | 5   | 7   | 9   | 5   | 13   | 0     | 9    | 98  | 1996 | 4.72          |
|         | 5   | 6   | 5   | 5   | 6   | 5   | 8   | 5   | 5   | 5   | 4   | 8    | 0     | 8    | 75  | 1997 | 4.18          |
|         | 9   | 5   | 10  | 7   | 11  | 6   | 10  | 5   | 5   | 8   | 6   | 12   | 0     | 9    | 103 | 1998 | 5.10          |
|         | 8   | 6   | 14  | 8   | 13  | 6   | 9   | 3   | 5   | 6   | 6   | 13   | 0     | 5    | 102 | 1999 | 4.50          |
|         | 13  | 6   | 14  | 7   | 14  | 5   | 9   | 5   | 6   | 5   | 8   | 16   | 0     | 11   | 119 | 2000 | 4.33          |
|         | 0   | 0   | 15  | 7   | 15  | 5   | 11  | 6   | 5   | 6   | 9   | 18   | 0     | 15   | 112 | 2001 | 4.58          |
|         | 0   | 0   | 7   | 2   | 5   | 6   | 8   | 4   | 6   | 6   | 5   | 10   | 0     | 10   | 69  | 2002 | 4.86          |
|         | 0   | 0   | 7   | 6   | 7   | 7   | 6   | 5   | 6   | 5   | 5   | 7    | 0     | 16   | 77  | 2003 | 5.28          |
|         | 9   | 7   | 11  | 9   | 9   | 6   | 9   | 5   | 7   | 7   | 8   | 12   | 0     | 15   | 114 | 2004 | 4.99          |
|         | 0   | 0   | 9   | 7   | 8   | 6   | 6   | 5   | 6   | 7   | 8   | 11   | 0     | 15   | 88  | 2005 | 4.48          |
|         | 6   | 5   | 7   | 5   | 7   | 7   | 8   | 5   | 2   | 1   | 5   | 11   | 0     | 12   | 81  | 2006 | 4.26          |
|         | 5   | 5   | 7   | 5   | 6   | 5   | 9   | 6   | 4   | 5   | 6   | 10   | 0     | 13   | 86  | 2007 | 4.60          |
|         | 5   |     | 7   | 7   | 8   | 9   | 8   | 6   | 6   | 8   | 5   | 9    | 0     | 12   | 90  | 2008 | 4.51          |
|         | 2   |     | 5   | 5   | 6   | 6   | 5   | 5   | 2   | 4   | 5   | 11   | 0     | 11   | 67  | 2009 | 4.37          |
|         | 5   | 5   | 10  | 5   | 7   | 9   | 10  | 6   | 1   | 2   | 10  | 12   | 0     | 12   | 94  | 2010 | 5.42          |

Table 3 *S. marinus*  $\geq$  17cm, abundance ('1000) and biomass indices (tons) for West Greenland by stratum and total, 1982-2010. Confidence intervals (CI) are given in per cent of the stratified mean at 95% level of significance for West Greenland.

| Year          |  | Str1.1   | Str1.2   | Str2.1  | Str2.2   | Str3.1  | Str3.2  | Str4.1  | Str4.2         | Total   | CI   |   |
|---------------|--|--|--|---|--|---|---|---|----------------|---|--|---|
|               | 1982   | 7483   | 9238   | 1E+05   | 5486   | 5417  | 18681   | 3969  |                | 191606  | 117  |   |
|               | 1983   | 3410   | 2923   | 2867  | 5655   | 3452  | 6615  | 1829  |                | 26751   | 82   |   |
|               | 1984   | 1456   | 3308   | 490   | 1353   | 10591   | 2780  | 3892  |                | 23870   | 101  |   |
|               | 1985   | 3946   | 7685   | 26782   | 1689   | 3154  | 13781   | 4876  |                | 61913   | 87   |   |
|               | 1986   | 4837   | 4429   | 1760  | 2983   | 15649   | 2768  | 2065  |                | 34491   | 58   |   |
|               | 1987   | 1007   | 499  | 1221  |  | 8661  |   | 622   | 2985           | 14995   | 77   |   |
|               | 1988   | 667  | 5667   | 310   | 2049   | 6460  | 2207  | 752   |                | 18112   | 60   |   |
|               | 1989   | 572  | 663  | 840   | 749  | 6104  |   | 333   |                | 9261  | 49   |   |
|               | 1990   | 388  | 821  | 370   | 1265   | 1165  |   | 186   | 2310           | 6505  | 41   |   |
|               | 1991   | 521  | 274  | 96  | 1215   | 341   | 928   | 352   | 2658           | 6385  | 68   |   |
|               | 1992   | 147  | 145  | 86  | 368  | 165   | 548   | 465   | 795            | 2719  | 69   |   |
|               | 1993   | 193  | 619  | 67  | 328  | 91  | 167   | 0   |                | 1465  | 55   |   |
|               | 1994   | 104  | 352  | 153   | 175  | 60  | 48  | 153   | 278            | 1323  | 45   |   |
|               | 1995   |  |  |   |  | 55  | 68  | 35  | 228            | 386   | 68   |   |
|               | 1996   | 160  | 292  | 22  | 270  | 403   | 470   | 32  | 343            | 1992  | 57   |   |
|               | 1997   | 244  | 639  | 17  | 175  | 127   | 364   | 35  | 565            | 2166  | 58   |   |
|               | 1998   | 121  | 149  | 57  | 151  | 21  | 210   | 131   | 264            | 1104  | 57   |   |
|               | 1999   | 264  | 279  | 172   | 276  | 86  | 227   | 19  | 201            | 1323  | 37   |   |
|               | 2000   | 221  | 717  | 75  | 716  | 108   | 244   | 12  | . 994          | 3087  | 53   |   |
|               | 2000   | 221  |  | 116   | 341  | 77  | 514   | 10  | 1964           | 3022  | 75   |   |
|               | 2002   | •  |  | 116   | 571  | 354   | 631   | 15  | 1004           | 1116  | 75   |   |
|               | 2002   | •  | •  | 258   | 135  | 103   | 601   | 0   | . 2407         | 3804  | 63   |   |
|               | 2003   | . 175  | . 323  | 200   | 433  | 240   | 657   | 71  | 2407           | 15034   | 61   |   |
|               | 2004   | 175  | 323  | 21.4  | 410  | 164   | 1212  | 101   | 2049           | 7966  | 07   |   |
|               | 2005   |  |  | 214   | 403  | 74  | 1213  | 101   | 11642          | 11005   | 91   |   |
|               | 2000   | 200  | 200  | 29  | 219  | 106   | 2006  | 135   | 1043           | 15094   | 07   |   |
|               | 2007   | 390  | 3057   | 147   | 955  | 190   | 2090  | 249   | 0762           | 10904   | 102  |   |
|               | 2000   | 0  | •  | 29  | 140  | 40  | 2940  | 70  | 7609           | 10015   | 103  |   |
|               | 2009   |  |  | 0   | 464  | 71  | 2072  | 0   | 7608           | 10215   | 101  |   |
|               | 2010   | 181  | 2165   | 95  | 390  | 225   | 4638  | /1  | 11464          | 19229   | 86   |   |
|               |  |  |  |   |  |   |   |   |                |   |  |   |
| Bioma         | ee   |  |  |   |  |   |   |   |                |   |  |   |
| Bioma         | SS   | Ctr1 1   | Str1 2   | Str2 1  | Str.2.2  | Ctr2 1  | Ctr2 2  | C+r/1 1   | Str 1 2        | Total   | CL   |   |
| Bioma<br>Year | 1092   | Str1.1   | Str1.2   | Str2.1  | Str2.2   | Str3.1  | Str3.2  | Str4.1  | Str4.2         | Total   | CI   | GLM Biomass   |
| Bioma<br>Year | 1982   | Str1.1<br>1916   | Str1.2<br>1636   | Str2.1<br>54218   | Str2.2<br>2545   | Str3.1<br>3057  | Str3.2<br>12305   | Str4.1<br>2464  | Str4.2         | Total<br>78141  | CI<br>106  | GLM Biomass<br>30976  |
| Bioma<br>Year | 1982<br>1983   | Str1.1<br>1916<br>705  | Str1.2<br>1636<br>849  | Str2.1<br>54218<br>1335   | Str2.2<br>2545<br>2647   | Str3.1<br>3057<br>1608  | Str3.2<br>12305<br>5487   | Str4.1<br>2464<br>1133  | Str4.2         | Total<br>78141<br>13764   | CI<br>106<br>106   | GLM Biomass<br>30976<br>10364<br>9630   |
| Bioma<br>Year | 1982<br>1983<br>1984   | Str1.1<br>1916<br>705<br>342   | Str1.2<br>1636<br>849<br>869   | Str2.1<br>54218<br>1335<br>222  | Str2.2<br>2545<br>2647<br>588  | Str3.1<br>3057<br>1608<br>4896  | Str3.2<br>12305<br>5487<br>2294   | Str4.1<br>2464<br>1133<br>1950  | Str4.2         | Total<br>78141<br>13764<br>11161  | CI<br>106<br>106<br>111  | GLM Biomass<br>30976<br>10364<br>9630   |
| Bioma<br>Year | 1982<br>1983<br>1984<br>1985   | Str1.1<br>1916<br>705<br>342<br>907  | Str1.2<br>1636<br>849<br>869<br>1531   | Str2.1<br>54218<br>1335<br>222<br>13107   | Str2.2<br>2545<br>2647<br>588<br>548   | Str3.1<br>3057<br>1608<br>4896<br>1397<br>7210  | Str3.2<br>12305<br>5487<br>2294<br>8662   | Str4.1<br>2464<br>1133<br>1950<br>2673  | Str4.2         | Total<br>78141<br>13764<br>11161<br>28825   | CI<br>106<br>106<br>111<br>121   | GLM Biomass<br>30976<br>10364<br>9630<br>8961   |
| Bioma<br>Year | 1982<br>1983<br>1984<br>1985<br>1986   | Str1.1<br>1916<br>705<br>342<br>907<br>1102  | Str1.2<br>1636<br>849<br>869<br>1531<br>1274   | Str2.1<br>54218<br>1335<br>222<br>13107<br>655  | Str2.2<br>2545<br>2647<br>588<br>548<br>1137   | Str3.1<br>3057<br>1608<br>4896<br>1397<br>7219  | Str3.2<br>12305<br>5487<br>2294<br>8662<br>1649   | Str4.1<br>2464<br>1133<br>1950<br>2673<br>1345  | Str4.2         | Total<br>78141<br>13764<br>11161<br>28825<br>14381  | CI<br>106<br>106<br>111<br>121<br>76   | GLM Biomass<br>30976<br>10364<br>9630<br>8961<br>15365<br>16082   |
| Bioma<br>Year | 1982<br>1983<br>1984<br>1985<br>1986<br>1987   | Str1.1<br>1916<br>705<br>342<br>907<br>1102<br>273   | Str1.2<br>1636<br>849<br>869<br>1531<br>1274<br>279  | Str2.1<br>54218<br>1335<br>222<br>13107<br>655<br>603   | Str2.2<br>2545<br>2647<br>588<br>548<br>1137   | Str3.1<br>3057<br>1608<br>4896<br>1397<br>7219<br>4472  | Str3.2<br>12305<br>5487<br>2294<br>8662<br>1649   | Str4.1<br>2464<br>1133<br>1950<br>2673<br>1345<br>402   | Str4.2         | Total<br>78141<br>13764<br>11161<br>28825<br>14381<br>8870  | CI<br>106<br>106<br>111<br>121<br>76<br>106  | GLM Biomass<br>30976<br>10364<br>9630<br>8961<br>15365<br>16085<br>5037   |
| Bioma<br>Year | 1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988   | Str1.1<br>1916<br>705<br>342<br>907<br>1102<br>273<br>133  | Str1.2<br>1636<br>849<br>869<br>1531<br>1274<br>279<br>747   | Str2.1<br>54218<br>1335<br>222<br>13107<br>655<br>603<br>110  | Str2.2<br>2545<br>2647<br>588<br>548<br>1137<br>865  | Str3.1<br>3057<br>1608<br>4896<br>1397<br>7219<br>4472<br>2773<br>2474  | Str3.2<br>12305<br>5487<br>2294<br>8662<br>1649<br>1529   | Str4.1<br>2464<br>1133<br>1950<br>2673<br>1345<br>402<br>391  | Str4.2         | Total<br>78141<br>13764<br>11161<br>28825<br>14381<br>8870<br>6548  | CI<br>106<br>106<br>111<br>121<br>76<br>106<br>55  | GLM Biomass<br>30976<br>10364<br>9630<br>8961<br>15365<br>16082<br>5037<br>4781   |
| Bioma<br>Year | 1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989   | Str1.1<br>1916<br>705<br>342<br>907<br>1102<br>273<br>133<br>118   | Str1.2<br>1636<br>849<br>869<br>1531<br>1274<br>279<br>747<br>159  | Str2.1<br>54218<br>1335<br>222<br>13107<br>655<br>603<br>110<br>297   | Str2.2<br>2545<br>2647<br>588<br>548<br>1137   | Str3.1<br>3057<br>1608<br>4896<br>1397<br>7219<br>4472<br>2773<br>2471  | Str3.2<br>12305<br>5487<br>2294<br>8662<br>1649<br>1529   | Str4.1<br>2464<br>1133<br>1950<br>2673<br>1345<br>402<br>391<br>196   | Str4.2         | Total<br>78141<br>13764<br>11161<br>28825<br>14381<br>8870<br>6548<br>3513  | CI<br>106<br>106<br>111<br>121<br>76<br>106<br>55<br>55  | GLM Biomass<br>30976<br>10364<br>9630<br>8961<br>15365<br>16082<br>5037<br>4781   |
| Bioma<br>Year | 1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989<br>1990   | Str1.1<br>1916<br>705<br>342<br>907<br>1102<br>273<br>133<br>118<br>55   | Str1.2<br>1636<br>849<br>869<br>1531<br>1274<br>279<br>747<br>159<br>190   | Str2.1<br>54218<br>1335<br>222<br>13107<br>655<br>603<br>110<br>297<br>82   | Str2.2<br>2545<br>2647<br>588<br>548<br>1137   | Str3.1<br>3057<br>1608<br>4896<br>1397<br>7219<br>4472<br>2773<br>2471<br>545   | Str3.2<br>12305<br>5487<br>2294<br>8662<br>1649<br>1529   | Str4.1<br>2464<br>1133<br>1950<br>2673<br>1345<br>402<br>391<br>196<br>105  | Str4.2         | Total<br>78141<br>13764<br>11161<br>28825<br>14381<br>8870<br>6548<br>3513<br>2623  | CI<br>106<br>106<br>111<br>121<br>76<br>106<br>55<br>55<br>55<br>58  | GLM Biomass<br>30976<br>10364<br>9630<br>8961<br>15365<br>16082<br>5037<br>4781<br>4768   |
| Bioma<br>Year | ss<br>1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989<br>1990<br>1991   | Str1.1<br>1916<br>705<br>342<br>907<br>1102<br>273<br>133<br>118<br>55<br>69   | Str1.2<br>1636<br>849<br>869<br>1531<br>1274<br>279<br>747<br>159<br>190<br>93   | Str2.1<br>54218<br>1335<br>222<br>13107<br>655<br>603<br>110<br>297<br>82<br>24   | Str2.2<br>2545<br>2647<br>588<br>548<br>1137   | Str3.1<br>3057<br>1608<br>4896<br>1397<br>7219<br>4472<br>2773<br>2471<br>545<br>116  | Str3.2<br>12305<br>5487<br>2294<br>8662<br>1649<br>1529   | Str4.1<br>2464<br>1133<br>1950<br>2673<br>1345<br>402<br>391<br>196<br>105<br>4   | Str4.2         | Total<br>78141<br>13764<br>11161<br>28825<br>14381<br>8870<br>6548<br>3513<br>2623<br>1897<br>4429  | CI<br>106<br>111<br>121<br>76<br>106<br>55<br>55<br>58<br>93   | GLM Biomass<br>30976<br>10364<br>9630<br>8961<br>15365<br>16082<br>5037<br>4781<br>4768<br>2726   |
| Bioma<br>Year | ss<br>1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989<br>1990<br>1991<br>1992   | Str1.1<br>1916<br>705<br>342<br>907<br>1102<br>273<br>133<br>118<br>55<br>69<br>21   | Str1.2<br>1636<br>849<br>869<br>1531<br>1274<br>279<br>747<br>159<br>190<br>93<br>48   | Str2.1<br>54218<br>1335<br>222<br>13107<br>655<br>603<br>110<br>297<br>82<br>24<br>24<br>24   | Str2.2<br>2545<br>2647<br>588<br>548<br>1137   | Str3.1<br>3057<br>1608<br>4896<br>1397<br>7219<br>4472<br>2773<br>2471<br>545<br>116<br>46  | Str3.2<br>12305<br>5487<br>2294<br>8662<br>1649<br>1529   | Str4.1<br>2464<br>1133<br>1950<br>2673<br>1345<br>402<br>391<br>196<br>105<br>4<br>169  | Str4.2         | Total<br>78141<br>13764<br>11161<br>28825<br>14381<br>8870<br>6548<br>3513<br>2623<br>1897<br>1122  | CI<br>106<br>111<br>121<br>76<br>106<br>55<br>55<br>55<br>58<br>93<br>83   | GLM Biomass<br>30976<br>10364<br>9630<br>8961<br>15365<br>16082<br>5037<br>4781<br>4768<br>2726<br>1568   |
| Bioma<br>Year | ss<br>1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989<br>1990<br>1991<br>1992<br>1993   | Str1.1<br>1916<br>705<br>342<br>907<br>1102<br>273<br>133<br>118<br>55<br>69<br>21<br>57   | Str1.2<br>1636<br>849<br>869<br>1531<br>1274<br>279<br>747<br>159<br>190<br>93<br>48<br>146  | Str2.1<br>54218<br>1335<br>222<br>13107<br>655<br>603<br>110<br>297<br>82<br>24<br>24<br>24<br>24   | Str2.2<br>2545<br>2647<br>588<br>548<br>1137   | Str3.1<br>3057<br>1608<br>4896<br>1397<br>7219<br>4472<br>2773<br>2471<br>545<br>116<br>46<br>46  | Str3.2<br>12305<br>5487<br>2294<br>8662<br>1649<br>1529<br>407<br>282<br>67   | Str4.1<br>2464<br>1133<br>1950<br>2673<br>1345<br>402<br>391<br>196<br>105<br>4<br>169<br>0<br>0  | Str4.2         | Total<br>78141<br>13764<br>11161<br>28825<br>14381<br>8870<br>6548<br>3513<br>2623<br>1897<br>1122<br>488   | CI<br>106<br>106<br>111<br>121<br>76<br>106<br>55<br>55<br>58<br>93<br>83<br>83<br>54  | GLM Biomass<br>30976<br>10364<br>9630<br>8961<br>15365<br>16082<br>5037<br>4781<br>4768<br>2726<br>1568<br>635<br>772   |
| Bioma<br>Year | ss<br>1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989<br>1990<br>1991<br>1992<br>1993<br>1994   | Str1.1<br>1916<br>705<br>342<br>907<br>1102<br>273<br>133<br>118<br>55<br>69<br>21<br>57<br>31   | Str1.2<br>1636<br>849<br>869<br>1531<br>1274<br>279<br>747<br>159<br>190<br>93<br>48<br>146<br>159   | Str2.1<br>54218<br>1335<br>222<br>13107<br>655<br>603<br>110<br>297<br>82<br>24<br>24<br>24<br>24<br>24<br>88   | Str2.2<br>2545<br>2647<br>588<br>548<br>1137   | Str3.1<br>3057<br>1608<br>4896<br>1397<br>7219<br>4472<br>2773<br>2471<br>545<br>116<br>46<br>46<br>26  | Str3.2<br>12305<br>5487<br>2294<br>8662<br>1649<br>1529<br>407<br>282<br>67<br>37   | Str4.1<br>2464<br>1133<br>1950<br>2673<br>1345<br>402<br>391<br>196<br>105<br>4<br>169<br>0<br>4<br>5   | Str4.2         | Total<br>78141<br>13764<br>11161<br>28825<br>14381<br>8870<br>6548<br>3513<br>2623<br>1897<br>1122<br>488<br>504  | CI<br>106<br>106<br>111<br>121<br>76<br>106<br>55<br>55<br>55<br>58<br>93<br>83<br>83<br>83<br>54<br>53  | GLM Biomass<br>30976<br>10364<br>9630<br>8961<br>15365<br>16082<br>5037<br>4781<br>4781<br>4768<br>2726<br>1568<br>635<br>779   |
| Bioma<br>Year | ss<br>1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989<br>1990<br>1991<br>1992<br>1993<br>1994<br>1995   | Str1.1<br>1916<br>705<br>342<br>907<br>1102<br>273<br>133<br>118<br>55<br>69<br>21<br>57<br>31   | Str1.2<br>1636<br>849<br>869<br>1531<br>1274<br>279<br>747<br>159<br>190<br>93<br>48<br>146<br>159   | Str2.1<br>54218<br>1335<br>222<br>13107<br>655<br>603<br>110<br>297<br>82<br>24<br>24<br>24<br>22<br>48   | Str2.2<br>2545<br>2647<br>588<br>548<br>1137   | Str3.1<br>3057<br>1608<br>4896<br>1397<br>7219<br>4472<br>2773<br>2471<br>545<br>116<br>46<br>46<br>26<br>21  | Str3.2<br>12305<br>5487<br>2294<br>8662<br>1649<br>1529   | Str4.1<br>2464<br>1133<br>1950<br>2673<br>1345<br>402<br>391<br>196<br>105<br>4<br>169<br>0<br>45<br>200  | Str4.2         | Total<br>78141<br>13764<br>11161<br>28825<br>14381<br>8870<br>6548<br>3513<br>2623<br>1897<br>1122<br>488<br>504<br>121   | CI<br>106<br>106<br>111<br>121<br>76<br>106<br>55<br>55<br>58<br>93<br>83<br>83<br>83<br>54<br>53<br>60  | GLM Biomass<br>30976<br>10364<br>9630<br>8961<br>15365<br>16082<br>5037<br>4781<br>4768<br>2726<br>1568<br>635<br>779<br>768  |
| Bioma<br>Year | ss<br>1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989<br>1990<br>1991<br>1992<br>1993<br>1994<br>1995<br>1995   | Str1.1<br>1916<br>705<br>342<br>907<br>1102<br>273<br>133<br>118<br>55<br>69<br>21<br>57<br>31   | Str1.2<br>1636<br>849<br>869<br>1531<br>1274<br>279<br>747<br>159<br>190<br>93<br>48<br>146<br>159   | Str2.1<br>54218<br>1335<br>222<br>13107<br>655<br>603<br>110<br>297<br>82<br>24<br>24<br>24<br>22<br>48   | Str2.2<br>2545<br>2647<br>588<br>548<br>1137   | Str3.1<br>3057<br>1608<br>4896<br>1397<br>7219<br>4472<br>2773<br>2471<br>545<br>116<br>46<br>46<br>26<br>21<br>136   | Str3.2<br>12305<br>5487<br>2294<br>8662<br>1649<br>1529   | Str4.1<br>2464<br>1133<br>1950<br>2673<br>1345<br>402<br>391<br>196<br>105<br>4<br>169<br>0<br>45<br>20<br>9<br>9   | Str4.2<br>2841 | Total<br>78141<br>13764<br>11161<br>28825<br>14381<br>8870<br>6548<br>3513<br>2623<br>1897<br>1122<br>488<br>504<br>121<br>690  | CI<br>106<br>106<br>111<br>121<br>76<br>106<br>55<br>55<br>58<br>93<br>83<br>83<br>83<br>83<br>54<br>53<br>60<br>51  | GLM Biomass<br>30976<br>10364<br>9630<br>8961<br>15365<br>16082<br>5037<br>4781<br>4768<br>2726<br>1568<br>635<br>779<br>768<br>513   |
| Bioma<br>Year | <ul> <li>ss</li> <li>1982</li> <li>1983</li> <li>1984</li> <li>1985</li> <li>1986</li> <li>1987</li> <li>1988</li> <li>1990</li> <li>1991</li> <li>1992</li> <li>1993</li> <li>1994</li> <li>1995</li> <li>1996</li> <li>1997</li> </ul>   | Str1.1<br>1916<br>705<br>342<br>907<br>1102<br>273<br>133<br>118<br>55<br>69<br>21<br>57<br>31   | Str1.2<br>1636<br>849<br>869<br>1531<br>1274<br>279<br>747<br>159<br>190<br>93<br>48<br>146<br>159<br>112<br>275   | Str2.1<br>54218<br>1335<br>222<br>13107<br>655<br>603<br>110<br>297<br>82<br>24<br>24<br>22<br>48<br>4<br>4   | Str2.2<br>2545<br>2647<br>588<br>548<br>1137   | Str3.1<br>3057<br>1608<br>4896<br>1397<br>7219<br>4472<br>2773<br>2471<br>545<br>116<br>46<br>46<br>46<br>26<br>21<br>136<br>36   | Str3.2<br>12305<br>5487<br>2294<br>8662<br>1649<br>1529<br>407<br>282<br>67<br>37<br>20<br>144<br>220   | Str4.1<br>2464<br>1133<br>1950<br>2673<br>1345<br>402<br>391<br>196<br>105<br>4<br>169<br>0<br>0<br>45<br>20<br>9<br>111  | Str4.2         | Total<br>78141<br>13764<br>11161<br>28825<br>14381<br>8870<br>6548<br>3513<br>2623<br>1897<br>1122<br>488<br>504<br>121<br>690<br>897   | CI<br>106<br>111<br>121<br>76<br>106<br>55<br>55<br>58<br>93<br>83<br>83<br>54<br>53<br>60<br>51<br>700  | GLM Biomass<br>30976<br>10364<br>9630<br>8961<br>15365<br>16082<br>5037<br>4781<br>4768<br>2726<br>1568<br>635<br>779<br>768<br>513<br>506  |
| Bioma         | ss<br>1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989<br>1990<br>1991<br>1992<br>1993<br>1994<br>1995<br>1996<br>1997   | Str1.1<br>1916<br>705<br>342<br>907<br>1102<br>273<br>133<br>118<br>55<br>69<br>21<br>57<br>31   | Str1.2<br>1636<br>849<br>869<br>1531<br>1274<br>279<br>747<br>159<br>190<br>93<br>48<br>146<br>159   | Str2.1<br>54218<br>1335<br>222<br>13107<br>655<br>603<br>110<br>297<br>82<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>38<br>4<br>8   | Str2.2<br>2545<br>2647<br>588<br>548<br>1137   | Str3.1<br>3057<br>1608<br>4896<br>1397<br>7219<br>4472<br>2773<br>2471<br>5455<br>116<br>466<br>466<br>26<br>21<br>136<br>36<br>14  | Str3.2<br>12305<br>5487<br>2294<br>8662<br>1649<br>1529   | Str4.1<br>2464<br>1133<br>1950<br>2673<br>1345<br>402<br>391<br>196<br>105<br>4<br>169<br>0<br>45<br>200<br>9<br>11<br>60   | Str4.2         | Total<br>78141<br>13764<br>11161<br>28825<br>14381<br>8870<br>6548<br>3513<br>2623<br>1897<br>1122<br>488<br>504<br>121<br>690<br>897<br>437  | Cl<br>106<br>106<br>111<br>121<br>76<br>55<br>55<br>58<br>93<br>83<br>54<br>53<br>60<br>51<br>70<br>70<br>71   | GLM Biomass<br>30976<br>10364<br>9630<br>8961<br>15365<br>16082<br>5037<br>4781<br>4768<br>2726<br>1568<br>635<br>779<br>768<br>513<br>506<br>467   |
| Bioma         | ss<br>1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1990<br>1991<br>1992<br>1993<br>1994<br>1995<br>1996<br>1997<br>1998   | Str1.1<br>1916<br>705<br>342<br>907<br>1102<br>273<br>133<br>118<br>55<br>69<br>21<br>57<br>31   | Str1.2<br>1636<br>849<br>869<br>1531<br>1274<br>279<br>747<br>159<br>190<br>93<br>48<br>146<br>159   | Str2.1<br>54218<br>1335<br>222<br>13107<br>655<br>603<br>110<br>297<br>82<br>24<br>24<br>22<br>48<br>4<br>8<br>4<br>4<br>4  | Str2.2<br>2545<br>2647<br>588<br>548<br>1137   | Str3.1<br>3057<br>1608<br>4896<br>1397<br>7219<br>4472<br>2773<br>2471<br>545<br>116<br>46<br>46<br>26<br>21<br>136<br>36<br>14<br>136  | Str3.2<br>12305<br>5487<br>2294<br>8662<br>1649<br>1529   | Str4.1<br>2464<br>1133<br>1950<br>2673<br>1345<br>402<br>391<br>196<br>105<br>4<br>169<br>0<br>45<br>200<br>9<br>111<br>60<br>14  | Str4.2         | Total<br>78141<br>13764<br>11161<br>28825<br>14381<br>8870<br>6548<br>3513<br>2623<br>1897<br>1122<br>488<br>504<br>121<br>690<br>897<br>437<br>368   | CI<br>106<br>111<br>121<br>76<br>55<br>55<br>58<br>93<br>83<br>54<br>53<br>60<br>51<br>70<br>71<br>53  | GLM Biomass<br>30976<br>10364<br>9630<br>8961<br>15365<br>16082<br>5037<br>4781<br>4781<br>4768<br>2726<br>1568<br>635<br>779<br>768<br>513<br>506<br>467<br>545  |
| Bioma         | ss<br>1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1990<br>1991<br>1992<br>1993<br>1994<br>1995<br>1994<br>1995<br>1998<br>1999<br>2000   | Str1.1<br>1916<br>705<br>342<br>907<br>1102<br>273<br>31<br>118<br>55<br>69<br>21<br>57<br>31<br>67<br>37<br>22<br>60<br>73  | Str1.2<br>1636<br>849<br>869<br>1531<br>1274<br>279<br>747<br>159<br>190<br>93<br>448<br>146<br>159  | Str2.1<br>54218<br>1335<br>222<br>13107<br>655<br>603<br>110<br>297<br>82<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>8<br>4<br>8<br>4<br>4<br>8<br>34                                   | Str2.2<br>2545<br>2647<br>588<br>548<br>1137   | Str3.1<br>3057<br>1608<br>4896<br>1397<br>7219<br>4472<br>2773<br>2471<br>545<br>116<br>46<br>46<br>26<br>21<br>136<br>366<br>366<br>14<br>18<br>30   | Str3.2<br>12305<br>5487<br>2294<br>8662<br>1649<br>1529<br>407<br>282<br>67<br>37<br>200<br>144<br>2200<br>109<br>88<br>92  | Str4.1<br>2464<br>1133<br>1950<br>2673<br>1345<br>402<br>391<br>196<br>105<br>4<br>4<br>169<br>0<br>45<br>200<br>9<br>111<br>600<br>144<br>2  | Str4.2         | Total<br>78141<br>13764<br>11161<br>28825<br>14381<br>8870<br>6548<br>3513<br>2623<br>1897<br>1122<br>488<br>504<br>121<br>690<br>897<br>437<br>368<br>1160   | Cl<br>106<br>106<br>111<br>121<br>76<br>55<br>55<br>58<br>93<br>83<br>54<br>53<br>60<br>51<br>70<br>71<br>53<br>59   | GLM Biomass<br>30976<br>10364<br>9630<br>8961<br>15365<br>16082<br>5037<br>4781<br>4768<br>2726<br>1568<br>635<br>779<br>768<br>513<br>506<br>467<br>545<br>1051  |
| Bioma         | ss<br>1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989<br>1990<br>1991<br>1993<br>1994<br>1995<br>1996<br>1997<br>1998<br>1999<br>2000<br>2001   | Str1.1<br>1916<br>705<br>342<br>273<br>1102<br>273<br>1133<br>118<br>55<br>69<br>21<br>1<br>57<br>31   | Str1.2<br>1636<br>849<br>869<br>1531<br>1274<br>279<br>747<br>159<br>190<br>93<br>48<br>146<br>159   | Str2.1<br>54218<br>1335<br>2222<br>13107<br>655<br>603<br>110<br>297<br>82<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>8<br>2<br>48<br>40<br>0<br>34<br>27                         | Str2.2<br>2545<br>2647<br>588<br>548<br>1137   | Str3.1<br>3057<br>1608<br>4896<br>1397<br>7219<br>4472<br>2773<br>2471<br>545<br>516<br>466<br>26<br>21<br>136<br>366<br>21<br>136<br>366<br>14<br>18<br>300<br>29  | Str3.2<br>12305<br>5487<br>2294<br>1649<br>1529<br>407<br>282<br>67<br>37<br>200<br>144<br>2200<br>144<br>2200<br>144<br>220<br>88<br>892<br>258                                  | Str4.1<br>2464<br>1133<br>1950<br>2673<br>1345<br>402<br>391<br>196<br>105<br>4<br>4<br>169<br>0<br>0<br>45<br>20<br>9<br>9<br>111<br>60<br>60<br>614<br>22<br>3<br>3   | Str4.2         | Total<br>78141<br>13764<br>11161<br>28825<br>14381<br>8870<br>6548<br>3513<br>2623<br>1897<br>1122<br>488<br>504<br>1122<br>690<br>897<br>437<br>3688<br>1160<br>1387   | Cl<br>106<br>106<br>111<br>121<br>76<br>55<br>55<br>58<br>93<br>83<br>54<br>53<br>60<br>51<br>70<br>71<br>53<br>59<br>83   | GLM Biomass<br>30976<br>10364<br>9630<br>8961<br>15365<br>16082<br>5037<br>4781<br>4768<br>2726<br>1568<br>635<br>779<br>768<br>513<br>506<br>467<br>545<br>1051<br>2217  |
| Bioma         | ss<br>1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989<br>1990<br>1991<br>1993<br>1994<br>1995<br>1995<br>1997<br>1998<br>1999<br>2000<br>2001<br>2002   | Str1.1<br>1916<br>342<br>907<br>1102<br>273<br>133<br>118<br>55<br>69<br>21<br>57<br>31  | Str1.2<br>1636<br>849<br>869<br>1531<br>1274<br>279<br>747<br>159<br>9<br>9<br>190<br>93<br>48<br>146<br>159   | Str2.1<br>54218<br>1335<br>222<br>13107<br>655<br>603<br>110<br>297<br>82<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>4<br>24<br>24<br>4<br>34<br>4<br>34<br>4<br>34<br>4<br>27<br>28    | Str2.2<br>2545<br>2647<br>588<br>548<br>1137<br>865<br>2722<br>295<br>104<br>150<br>69   | Str3.1<br>3057<br>1608<br>4896<br>1397<br>7219<br>4472<br>2773<br>2471<br>545<br>545<br>545<br>545<br>545<br>116<br>46<br>46<br>46<br>46<br>26<br>36<br>36<br>14<br>136<br>36<br>39<br>14<br>80<br>29<br>29<br>166  | Str3.2<br>12305<br>5487<br>2294<br>8662<br>1649   | Str4.1<br>2464<br>1133<br>1950<br>2673<br>1345<br>402<br>391<br>1966<br>105<br>4<br>169<br>0<br>0<br>45<br>50<br>20<br>9<br>9<br>111<br>600<br>14<br>4<br>2<br>3<br>3<br>15   | Str4.2         | Total<br>78141<br>13764<br>11161<br>28825<br>14381<br>8870<br>6548<br>3513<br>2623<br>1897<br>1122<br>488<br>504<br>121<br>690<br>897<br>437<br>368<br>1160<br>1387<br>479  | Cl<br>106<br>106<br>111<br>76<br>55<br>58<br>93<br>83<br>54<br>53<br>60<br>51<br>70<br>71<br>53<br>59<br>83<br>75  | GLM Biomass<br>30976<br>10364<br>9630<br>8961<br>15365<br>16082<br>5037<br>4781<br>4768<br>2726<br>1568<br>635<br>779<br>768<br>513<br>506<br>467<br>545<br>1051<br>2217<br>2588  |
| Bioma         | ss<br>1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989<br>1990<br>1991<br>1992<br>1993<br>1994<br>1995<br>1994<br>1995<br>1996<br>1997<br>1998<br>1999<br>2000<br>2001<br>2002<br>2001   | Str1.1<br>1916<br>342<br>907<br>1102<br>273<br>133<br>118<br>55<br>56<br>99<br>21<br>57<br>31  | Str1.2<br>1636<br>849<br>869<br>1531<br>1274<br>279<br>747<br>747<br>159<br>93<br>48<br>446<br>159<br>93<br>48<br>146<br>159<br>9<br>3<br>48<br>146<br>159<br>9<br>3<br>48<br>146<br>159<br>93<br>48<br>146<br>159<br>93<br>48<br>93<br>48<br>9<br>93<br>48<br>9<br>93<br>48<br>9<br>93<br>93<br>48<br>9<br>9<br>93<br>9<br>93                           | Str2.1<br>54218<br>1335<br>222<br>13107<br>655<br>603<br>110<br>297<br>82<br>24<br>24<br>22<br>48<br>4<br>4<br>4<br>22<br>48  | Str2.2<br>2545<br>2647<br>588<br>548<br>1137   | Str3.1<br>3057<br>1608<br>4896<br>1397<br>7219<br>4472<br>2773<br>2471<br>1545<br>2471<br>116<br>46<br>46<br>46<br>46<br>26<br>21<br>136<br>136<br>366<br>21<br>14<br>18<br>300<br>29<br>29<br>166<br>89  | Str3.2<br>12305<br>5487<br>2294<br>8662<br>1649   | Str4.1<br>2464<br>1133<br>1950<br>2673<br>1345<br>402<br>391<br>1966<br>1055<br>4<br>169<br>0<br>0<br>45<br>200<br>9<br>9<br>111<br>600<br>144<br>23<br>3<br>3<br>15500   | Str4.2         | Total<br>78141<br>13764<br>11161<br>28825<br>14381<br>8870<br>6548<br>3513<br>2623<br>1897<br>1122<br>488<br>504<br>121<br>690<br>897<br>437<br>368<br>1160<br>1387<br>479<br>1900  | Cl<br>106<br>111<br>121<br>76<br>55<br>58<br>93<br>83<br>54<br>53<br>60<br>51<br>70<br>71<br>53<br>59<br>83<br>75<br>59  | GLM Biomass<br>30976<br>10364<br>9630<br>8961<br>15365<br>16082<br>5037<br>4781<br>4768<br>2726<br>1568<br>635<br>7779<br>768<br>535<br>7779<br>768<br>513<br>506<br>467<br>545<br>1051<br>2217<br>2588<br>3204                           |
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| Bioma<br>Year | <ul> <li>SS</li> <li>1982</li> <li>1983</li> <li>1984</li> <li>1985</li> <li>1986</li> <li>1987</li> <li>1988</li> <li>1989</li> <li>1991</li> <li>1992</li> <li>1994</li> <li>1995</li> <li>1996</li> <li>1997</li> <li>1998</li> <li>1999</li> <li>2000</li> <li>2001</li> <li>2002</li> <li>2003</li> <li>2004</li> <li>2005</li> <li>2007</li> <li>2007</li> <li>2007</li> <li>2008</li> </ul>               | Str1.1<br>1916<br>342<br>907<br>1102<br>273<br>133<br>118<br>55<br>69<br>21<br>57<br>31<br>57<br>31  | Str1.2<br>1636<br>849<br>869<br>1531<br>1274<br>279<br>747<br>747<br>159<br>93<br>48<br>46<br>159<br>9<br>3<br>48<br>46<br>159<br>112<br>275<br>47<br>69<br>199<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>3<br>48<br>48<br>164<br>159<br>1<br>9<br>9<br>3<br>48<br>49<br>9<br>747<br>747<br>747<br>747<br>747<br>747<br>747<br>747<br>74 | Str2.1<br>54218<br>1335<br>222<br>13107<br>655<br>603<br>110<br>297<br>82<br>24<br>4<br>24<br>22<br>48  | Str2.2<br>2545<br>2647<br>588<br>548<br>1137<br>865<br>272<br>295<br>104<br>150<br>69  | Str3.1<br>3057<br>1608<br>4896<br>1397<br>7219<br>4472<br>2773<br>2471<br>5455<br>46<br>46<br>46<br>46<br>46<br>46<br>26<br>21<br>136<br>46<br>26<br>21<br>136<br>46<br>21<br>136<br>46<br>89<br>103<br>29<br>29<br>166<br>89<br>103<br>54<br>438<br>54<br>23<br>54<br>24<br>35<br>54<br>24<br>36<br>54<br>54<br>54<br>55<br>55<br>55<br>55<br>55<br>55<br>55<br>55<br>55<br>55 | Str3.2<br>12305<br>5487<br>2294<br>8662<br>1649   | Str4.1<br>2464<br>1133<br>1950<br>2673<br>1345<br>402<br>391<br>1966<br>1055<br>4<br>4<br>169<br>0<br>0<br>45<br>200<br>9<br>0<br>111<br>600<br>144<br>23<br>3<br>3155<br>0<br>0<br>466<br>1333<br>1055<br>0<br>1077<br>39  | Str4.2         | Total<br>78141<br>13764<br>11161<br>28825<br>14381<br>8870<br>6548<br>3513<br>2623<br>1897<br>1122<br>488<br>504<br>121<br>690<br>897<br>437<br>368<br>1160<br>1387<br>479<br>1900<br>2571<br>4684<br>843<br>9440                   | Cl<br>106<br>106<br>111<br>121<br>76<br>55<br>55<br>58<br>93<br>83<br>54<br>53<br>60<br>51<br>70<br>71<br>53<br>59<br>83<br>75<br>59<br>63<br>100<br>2122<br>101<br>91   | GLM Biomass<br>30976<br>10364<br>9630<br>8961<br>15365<br>16082<br>5037<br>4781<br>4768<br>2726<br>1568<br>635<br>7779<br>768<br>513<br>506<br>467<br>545<br>1051<br>2217<br>2588<br>3204<br>2209<br>5462<br>4577<br>10096<br>4054        |
| Bioma         | <ul> <li>SS</li> <li>1982</li> <li>1983</li> <li>1984</li> <li>1985</li> <li>1986</li> <li>1987</li> <li>1988</li> <li>1989</li> <li>1990</li> <li>1991</li> <li>1992</li> <li>1993</li> <li>1994</li> <li>1995</li> <li>1997</li> <li>1998</li> <li>1999</li> <li>2000</li> <li>2001</li> <li>2002</li> <li>2003</li> <li>2004</li> <li>2005</li> <li>2006</li> <li>2007</li> <li>2008</li> <li>2009</li> </ul> | Str1.1<br>1916<br>705<br>342<br>907<br>1102<br>273<br>133<br>118<br>55<br>69<br>21<br>57<br>31<br>57<br>67<br>37<br>22<br>60<br>73<br>7<br>5   | Str1.2<br>1636<br>849<br>869<br>1531<br>1274<br>279<br>747<br>759<br>93<br>48<br>146<br>159<br>93<br>48<br>146<br>159  | Str2.1<br>54218<br>1335<br>222<br>13107<br>655<br>603<br>110<br>297<br>82<br>24<br>4<br>24<br>22<br>48  | Str2.2<br>2545<br>2647<br>588<br>1137  | Str3.1<br>3057<br>1608<br>4896<br>1397<br>7219<br>4472<br>2773<br>2471<br>1545<br>2471<br>116<br>46<br>46<br>46<br>26<br>21<br>1366<br>46<br>21<br>1366<br>46<br>21<br>1366<br>48<br>9<br>9<br>103<br>54<br>38<br>134<br>438<br>134<br>197  | Str3.2<br>12305<br>5487<br>2294<br>8662<br>1649   | Str4.1<br>2464<br>1133<br>1950<br>2673<br>1345<br>402<br>391<br>1966<br>1055<br>200<br>9<br>9<br>0<br>111<br>600<br>144<br>2<br>3<br>3<br>5<br>5<br>0<br>0<br>466<br>1333<br>1055<br>1077<br>39<br>9<br>0<br>0  | Str4.2         | Total<br>78141<br>13764<br>11161<br>28825<br>14381<br>8870<br>6548<br>3513<br>2623<br>1897<br>1122<br>488<br>504<br>121<br>690<br>897<br>437<br>368<br>1160<br>1387<br>439<br>91900<br>2571<br>4684<br>8483<br>9440<br>4422<br>4800 | CI<br>106<br>106<br>111<br>121<br>76<br>55<br>58<br>93<br>83<br>83<br>54<br>53<br>60<br>51<br>70<br>71<br>53<br>83<br>75<br>59<br>63<br>100<br>122<br>101<br>91<br>102   | GLM Biomass<br>30976<br>10364<br>9630<br>8961<br>15365<br>16082<br>5037<br>4781<br>4781<br>2726<br>1568<br>635<br>779<br>768<br>513<br>506<br>467<br>545<br>1051<br>2217<br>2588<br>3204<br>2209<br>5462<br>4577<br>10096<br>4054<br>6550 |

| Length       | ### | ### | ### | ### | 2002       | 2003 | 2004 | 2005 | 2006       | 2007 | 2008 | 2009 | 2010       |
|--------------|-----|-----|-----|-----|------------|------|------|------|------------|------|------|------|------------|
| 15.5         | 0   | 12  | 0   | 0   | 0          | 0    | 0    | 0    | 0          | 0    | 0    | 0    | 0          |
| 16.5         | 0   | 0   | 0   | 0   | 0          | 0    | 0    | 0    | 0          | 0    | 0    | 0    | 0          |
| 17.5         | 0   | 0   | 30  | 28  | 26         | 27   | 64   | 49   | 19         | 512  | 435  | 265  | 1356       |
| 18.5         | 0   | 22  | 65  | 6   | 26         | 69   | 45   | 123  | 11         | 903  | 696  | 441  | 1090       |
| 19.5         | 6   | 31  | 95  | 85  | 44         | 51   | 77   | 219  | 57         | 974  | 621  | 315  | 595        |
| 20.5         | 34  | 41  | 127 | 30  | 34         | 32   | 55   | 371  | 151        | 521  | 480  | 460  | 797        |
| 21.5         | 5   | 100 | 78  | 52  | 32         | 120  | 61   | 501  | 166        | 483  | 613  | 543  | 833        |
| 22.5         | 68  | 51  | 113 | 97  | 96         | 93   | 88   | 290  | 125        | 516  | 723  | 554  | 870        |
| 23.5         | 33  | 103 | 84  | 63  | 18         | 97   | 95   | 456  | 278        | 414  | 926  | 425  | 976        |
| 24.5         | 76  | 51  | 150 | 74  | 68         | 109  | 153  | 437  | 426        | 626  | 620  | 681  | 771        |
| 25.5         | /1  | 64  | 179 | 134 | 31         | 95   | 207  | 485  | 249        | 858  | 696  | 588  | 807        |
| 26.5         | 121 | 109 | 199 | 166 | 22         | 85   | 202  | 443  | 276        | 721  | 755  | 469  | /15        |
| 27.5         | 103 | 86  | 115 | 1/5 | 74         | 160  | 266  | 434  | 289        | /16  | 735  | 515  | 625        |
| 28.5         | 30  | 66  | 184 | 219 | 35         | 150  | 256  | 478  | 439        | 653  | 634  | 536  | 534        |
| 29.5         | 50  | 75  | 142 | 143 | 32         | 280  | 124  | 431  | 817        | 703  | 656  | 288  | 490        |
| 30.5         | 10  | 100 | 100 | 145 | - 04<br>12 | 227  | 109  | 210  | 030<br>755 | 509  | 205  | 206  | 400        |
| 31.5         | 19  | 109 | 96  | 140 | 60         | 221  | 102  | 219  | 607        | 722  | 200  | 224  | 393<br>410 |
| 33.5         | 10  | 21  | 115 | 120 | 47         | 100  | 170  | 229  | 602        | 573  | 155  | 224  | 266        |
| 34.5         | 82  | 19  | 84  | 77  | 27         | 214  | 172  | 319  | 360        | 473  | 199  | 276  | 275        |
| 35.5         | 14  | 26  | 95  | 107 | 31         | 107  | 112  | 178  | 321        | 404  | 227  | 278  | 216        |
| 36.5         | 5   | 25  | 84  | 107 | 47         | 144  | 181  | 130  | 309        | 274  | 218  | 281  | 237        |
| 37.5         | 43  | 5   | 76  | 63  | 32         | 96   | 153  | 214  | 359        | 336  | 127  | 358  | 260        |
| 38.5         | 11  | 5   | 60  | 94  | 36         | 75   | 114  | 199  | 200        | 382  | 155  | 284  | 342        |
| 39.5         | 27  | 21  | 24  | 63  | 46         | 52   | 103  | 155  | 520        | 426  | 223  | 402  | 372        |
| 40.5         | 7   | 0   | 37  | 24  | 4          | 132  | 129  | 148  | 627        | 389  | 183  | 356  | 441        |
| 41.5         | 6   | 0   | 32  | 52  | 4          | 86   | 64   | 188  | 730        | 350  | 236  | 315  | 498        |
| 42.5         | 0   | 5   | 29  | 40  | 13         | 30   | 127  | 146  | 502        | 346  | 214  | 204  | 536        |
| 43.5         | 5   | 0   | 27  | 18  | 13         | 37   | 57   | 133  | 381        | 323  | 175  | 144  | 767        |
| 44.5         | 5   | 0   | 0   | 18  | 9          | 34   | 91   | 76   | 286        | 465  | 86   | 108  | 775        |
| 45.5         | 15  | 0   | 0   | 6   | 0          | 6    | 7    | 48   | 150        | 211  | 100  | 115  | 700        |
| 46.5         | 5   | 0   | 0   | 0   | 0          | 27   | 31   | 83   | 113        | 178  | 77   | 64   | 629        |
| 47.5         | 0   | 5   | 0   | 0   | 0          | 14   | 7    | 20   | 15         | 125  | 14   | 34   | 362        |
| 48.5         | 0   | 0   | 0   | 6   | 9          | 29   | 0    | 15   | 81         | 22   | 8    | 14   | 248        |
| 49.5         | 0   | 0   | 7   | 0   | 0          | 0    | 17   | 15   | 38         | 68   | 22   | 6    | 208        |
| 50.5         | 0   | 0   | 0   | 0   | 0          | 8    | 0    | 15   | 7          | 15   | 0    | 17   | 186        |
| 51.5         | 0   | 0   | 0   | 0   | 0          | 0    | 0    | 0    | 0          | 15   | 15   | 11   | 69         |
| 52.5         | 0   | 0   | 0   | 0   | 0          | 0    | 0    | 0    | 0          | 7    | 8    | 11   | 71         |
| 53.5         | 0   | 0   | 0   | 0   | 0          | 0    | - 7  | 0    | 0          | 7    | 0    | 0    | 0          |
| 54.5         | 0   | 0   | 0   | 0   | 0          | 0    | 4    | 0    | 7          | 7    | 0    | 0    | 7          |
| 55.5         | 0   | 0   | 0   | 0   | 0          | 0    | 0    | 0    | 0          | 0    | 0    | 0    | 8          |
| 56.5         | 0   | 0   | 0   | 0   | 0          | 0    | 0    | 0    | 0          | /    | 8    | 0    | 0          |
| 5/.5         | 0   | 0   | 0   | 0   | 0          | 0    | 0    | 0    | 0          | /    | 4    | 0    | 0          |
| 50.5         | 0   | 0   | 0   | 0   | 0          | 0    | 0    | 0    | 0          | 7    | 0    | 0    | 8<br>0     |
| 59.5<br>60.5 | 0   | 0   | 0   | 0   | 0          | 0    | 0    | 0    | 0          | 1    | 0    | 0    | 0          |
| 00.5         | U   | U   | U   | 0   | U          | 0    | 0    | 0    | 0          | 0    | U    | U    | U          |

Table 4 *S. marinus* >= 17 cm. Length composition by year ('1000), 1998-2010.

Table 5 *S. mentella*  $\geq$  17cm, abundance ('1000) and biomass indices (tons) for West Greenland by stratum and total, 1982-2008. Confidence intervals (CI) are given in per cent of the stratified mean at 95% level of significance for West Greenland. GLM 1985-1989 subject to revision.

| lance   |  |   |   |   |   |   |   |   |   |   |   |
|---|--|---|---|---|---|---|---|---|---|---|---|
|   | Str1.1   | Str1.2  | Str2.1  | Str2.2  | Str3.1  | Str3.2  | Str4.1  | Str4.2  | Total   | CI  |   |
| 1982  | 0  | 342   | 14  | 354   | 0   | 2662  | 0   |   | 3372  | 158   |   |
| 1983  | 30   | 789   | 78  | 2211  | 0   | 6304  | 0   |   | 9412  | 110   |   |
| 1984  | 2215   | 3580  | 10  | 1664  | 0   | 1097  | 0   |   | 8566  | 70  |   |
| 1985  | 0  | 300   | 30  | 32  | 48  | 335   | 0   |   | 745   | 103   |   |
| 1986  | 1327   | 360   | 33  | 303   | 4   | 342   | 0   |   | 2369  | 53  |   |
| 1987  | 673  | 14769   | 37  | 1268  | 56  |   | 0   | 2350  | 19153   | 70  |   |
| 1988  | 141  | 11507   | 23  | 688   | 60  | 5341  | 0   |   | 17760   | 117   |   |
| 1989  | 0  | 629   | 11  | 109   | 0   |   | 8   |   | 757   | 81  |   |
| 1990  | 39   | 11786   | 4   | 2490  | 40  |   | 0   | 4680  | 19039   | 87  |   |
| 1991  | 0  | 4376  | 0   | 231   | 0   | 3724  | 0   | 1720  | 10051   | 107   |   |
| 1992  | 0  | 46  | 0   | 15  | 0   | 145   | 0   | 0   | 206   | 154   |   |
| 1993  | 0  | 35  | 0   | 284   | 9   | 0   | 0   |   | 328   | 212   |   |
| 1994  | 0  | 294   | 18  | 105   | 90  | 158   | 0   | . 38  | 703   | 75  |   |
| 1995  | Ū  |   |   |   | 32  | 255   | 87  | 1901  | 2275  | 128   |   |
| 1996  | . 1644   | 694   | . 0   | 259   | 0   | 2237  | 30  | 8204  | 13068   | .20   |   |
| 1997  | 254  | 1866  | 0   | 370   | 39  | 3651  | 141   | 31400   | 37721   | 111   |   |
| 1998  | 201  | 336   | 0   | 228   | 168   | 851   | 11  | 2635  | 4229  | 117   |   |
| 1999  | 36   | 858   | q   | 616   | 55  | 2287  | 179   | 2000  | 4040  | 104   |   |
| 2000  | 0  | 108   | 6   | 0/18  | 33  | 1673  | 173   | 25033   | 27801   | 130   |   |
| 2000  | 0  | 100   | 24  | 725   | 126   | 6025  | 0   | 17407   | 2/001   | 100   |   |
| 2001  | •  | •   | 24  | 125   | 120   | 1616  | 20  | 17407   | 1645  | 07  |   |
| 2002  | •  | •   | 0   |   | 101   | 1010  | 29  |   | 1040  | 97  |   |
| 2003  |  |   | 42  | 1001  | 121   | 1809  | 41  | 11929   | 140044  | 108   |   |
| 2004  | 171  | 1257  | 43  | 1204  | 237   | 1627  | 153   | 6089  | 10841   | 75  |   |
| 2005  |  |   | 43  | 1214  | 29  | 928   | 89  | 1403  | 3100  | 76  |   |
| 2006  | 0  | 1684  | 74  | 887   | 61  | 1529  | 56  | 16078   | 16/61   | 108   |   |
| 2007  | 798  | 2104  | 16  | 788   | 51  | 1005  | 0   | 1441  | 5068  | 57  |   |
| 2008  | 0  | •   | 64  | 641   | 136   | 896   | 0   | 1083  | 2820  | 84  |   |
| 2009  |  |   | 0   | 38  | 33  | 816   | 0   | 76  | 963   | 220   |   |
| 2010  | 116  | 254   | 10  | 503   | 36  | 503   | 0   | 812   | 2234  | 106   |   |
|   |  |   |   |   |   |   |   |   |   |   |   |
|   |  |   |   |   |   |   |   |   |   |   |   |
| ISS   | <b>.</b>   | 0.10  | 0.04  |   | <b>a</b> . <b>a</b> . (   |   | <b>.</b>  |   |   | <u>.</u>  |   |
| ISS   | Str1.1   | Str1.2  | Str2.1  | Str2.2  | Str3.1  | Str3.2  | Str4.1  | Str4.2  | Total   | CI  | GLM Bio   |
| iss<br>1982   | Str1.1<br>0  | Str1.2<br>83  | Str2.1  | Str2.2<br>114   | Str3.1  | Str3.2<br>1024  | Str4.1  | Str4.2  | Total<br>1226   | CI<br>175   | GLM Bio<br>1128   |
| 1982<br>1983  | Str1.1<br>0<br>13  | Str1.2<br>83<br>167   | Str2.1<br>5<br>29   | Str2.2<br>114<br>1021   | Str3.1<br>0<br>0  | Str3.2<br>1024<br>3493  | Str4.1<br>0<br>0  | Str4.2  | Total<br>1226<br>4723   | CI<br>175<br>129  | GLM Bio<br>1128<br>2325   |
| 1982<br>1983<br>1984  | Str1.1<br>0<br>13<br>46  | Str1.2<br>83<br>167<br>1019   | Str2.1<br>5<br>29<br>6  | Str2.2<br>114<br>1021<br>641  | Str3.1<br>0<br>0  | Str3.2<br>1024<br>3493<br>462   | Str4.1<br>0<br>0  | Str4.2  | Total<br>1226<br>4723<br>2174   | CI<br>175<br>129<br>95  | GLM Bio<br>1128<br>2325<br>1771   |
| 1982<br>1983<br>1984<br>1985  | Str1.1<br>0<br>13<br>46<br>0   | Str1.2<br>83<br>167<br>1019<br>81   | Str2.1<br>5<br>29<br>6<br>15  | Str2.2<br>114<br>1021<br>641<br>12  | Str3.1<br>0<br>0<br>23  | Str3.2<br>1024<br>3493<br>462<br>116  | Str4.1<br>0<br>0<br>0   | Str4.2  | Total<br>1226<br>4723<br>2174<br>247  | CI<br>175<br>129<br>95<br>102   | GLM Bio<br>1128<br>2325<br>1771<br>1468   |
| 1982<br>1983<br>1984<br>1985<br>1986  | Str1.1<br>0<br>13<br>46<br>0<br>245  | Str1.2<br>83<br>167<br>1019<br>81<br>37   | Str2.1<br>5<br>29<br>6<br>15<br>18  | Str2.2<br>114<br>1021<br>641<br>12<br>112   | Str3.1<br>0<br>0<br>23<br>3   | Str3.2<br>1024<br>3493<br>462<br>116<br>151   | Str4.1<br>0<br>0<br>0<br>0<br>0   | Str4.2  | Total<br>1226<br>4723<br>2174<br>247<br>566   | CI<br>175<br>129<br>95<br>102<br>53   | GLM Bio<br>1128<br>2325<br>1771<br>1468<br>788  |
| 1982<br>1983<br>1984<br>1985<br>1986<br>1987  | Str1.1<br>0<br>13<br>46<br>0<br>245<br>67  | Str1.2<br>83<br>167<br>1019<br>81<br>37<br>3292   | Str2.1<br>5<br>29<br>6<br>15<br>18<br>7   | Str2.2<br>114<br>1021<br>641<br>12<br>112<br>388  | Str3.1<br>0<br>0<br>23<br>3<br>32   | Str3.2<br>1024<br>3493<br>462<br>116<br>151   | Str4.1<br>0<br>0<br>0<br>0<br>0<br>0  | Str4.2  | Total<br>1226<br>4723<br>2174<br>247<br>566<br>4738   | CI<br>175<br>129<br>95<br>102<br>53<br>115  | GLM Bio<br>1128<br>2325<br>1771<br>1468<br>788<br>2031  |
| 1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988  | Str1.1<br>0<br>13<br>46<br>0<br>245<br>67<br>18  | Str1.2<br>83<br>167<br>1019<br>81<br>37<br>3292<br>899  | Str2.1<br>5<br>29<br>6<br>15<br>18<br>7<br>19   | Str2.2<br>114<br>1021<br>641<br>12<br>112<br>388<br>144   | Str3.1<br>0<br>0<br>23<br>3<br>32<br>45   | Str3.2<br>1024<br>3493<br>462<br>116<br>151<br>2148   | Str4.1<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | Str4.2  | Total<br>1226<br>4723<br>2174<br>247<br>566<br>4738<br>3273   | CI<br>175<br>129<br>95<br>102<br>53<br>115<br>111   | GLM Bio<br>1128<br>2325<br>1771<br>1468<br>788<br>2031<br>2949  |
| 1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989  | Str1.1<br>0<br>13<br>46<br>0<br>245<br>67<br>18<br>0   | Str1.2<br>83<br>167<br>1019<br>81<br>37<br>3292<br>899<br>53  | Str2.1<br>5<br>29<br>6<br>15<br>18<br>7<br>19<br>9  | Str2.2<br>114<br>1021<br>641<br>12<br>112<br>388<br>144<br>17   | Str3.1<br>0<br>0<br>23<br>3<br>32<br>45<br>0  | Str3.2<br>1024<br>3493<br>462<br>116<br>151<br>2148   | Str4.1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>1   | Str4.2  | Total<br>1226<br>4723<br>2174<br>247<br>566<br>4738<br>3273<br>80   | CI<br>175<br>129<br>95<br>102<br>53<br>115<br>111<br>68   | GLM Bio<br>1128<br>2325<br>1771<br>1468<br>788<br>2031<br>2949<br>877   |
| 1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989<br>1990  | Str1.1<br>0<br>13<br>46<br>0<br>245<br>67<br>18<br>0<br>1  | Str1.2<br>83<br>167<br>1019<br>81<br>37<br>3292<br>899<br>53<br>324   | Str2.1<br>5<br>29<br>6<br>15<br>18<br>7<br>19<br>9<br>2   | Str2.2<br>114<br>1021<br>641<br>12<br>112<br>388<br>144<br>17<br>123  | Str3.1<br>0<br>0<br>23<br>3<br>3<br>2<br>45<br>0<br>6   | Str3.2<br>1024<br>3493<br>462<br>116<br>151<br>2148   | Str4.1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>1<br>0  | Str4.2  | Total<br>1226<br>4723<br>2174<br>247<br>566<br>4738<br>3273<br>80<br>1098   | CI<br>175<br>129<br>95<br>102<br>53<br>115<br>111<br>68<br>105  | GLM Bio<br>1128<br>2325<br>1771<br>1468<br>788<br>2031<br>2949<br>877<br>951  |
| 1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989<br>1990<br>1991  | Str1.1<br>0<br>13<br>46<br>0<br>245<br>67<br>18<br>0<br>1<br>1<br>0  | Str1.2<br>83<br>167<br>1019<br>81<br>37<br>3292<br>899<br>53<br>324<br>210  | Str2.1<br>5<br>29<br>6<br>15<br>18<br>7<br>19<br>9<br>2<br>0  | Str2.2<br>114<br>1021<br>641<br>12<br>112<br>388<br>144<br>17<br>123<br>4   | Str3.1<br>0<br>0<br>23<br>3<br>3<br>2<br>45<br>0<br>6<br>0  | Str3.2<br>1024<br>3493<br>462<br>116<br>151<br>2148<br>273  | Str4.1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>1<br>0<br>0<br>0<br>0  | Str4.2  | Total<br>1226<br>4723<br>2174<br>247<br>566<br>4738<br>3273<br>80<br>1098<br>891  | CI<br>175<br>129<br>95<br>102<br>53<br>115<br>111<br>68<br>105<br>118   | GLM Bid<br>1128<br>2325<br>1771<br>1468<br>788<br>2031<br>2949<br>877<br>951<br>1951  |
| 1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989<br>1990<br>1991<br>1992  | Str1.1<br>0<br>13<br>46<br>0<br>245<br>67<br>18<br>0<br>1<br>1<br>0<br>0   | Str1.2<br>83<br>167<br>1019<br>81<br>37<br>3292<br>899<br>53<br>324<br>210<br>4   | Str2.1<br>5<br>29<br>6<br>15<br>18<br>7<br>19<br>9<br>2<br>2<br>0   | Str2.2<br>114<br>1021<br>641<br>12<br>112<br>388<br>144<br>17<br>123<br>4<br>2  | Str3.1<br>0<br>0<br>23<br>3<br>32<br>45<br>0<br>6<br>0<br>0<br>0  | Str3.2<br>1024<br>3493<br>462<br>116<br>151<br>2148<br>273<br>38  | Str4.1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>1<br>1<br>0<br>0<br>0<br>0   | Str4.2  | Total<br>1226<br>4723<br>2174<br>247<br>566<br>4738<br>3273<br>80<br>1098<br>891<br>44  | CI<br>175<br>129<br>95<br>102<br>53<br>115<br>111<br>68<br>105<br>118<br>181  | GLM Bid<br>1128<br>2325<br>1771<br>1468<br>788<br>2031<br>2949<br>877<br>951<br>1951<br>1083  |
| 1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989<br>1990<br>1991<br>1992<br>1993  | Str1.1<br>0<br>13<br>46<br>0<br>245<br>67<br>18<br>0<br>1<br>1<br>0<br>0<br>0<br>0   | Str1.2<br>83<br>167<br>1019<br>81<br>3292<br>899<br>53<br>324<br>210<br>4<br>7  | Str2.1<br>5<br>29<br>6<br>15<br>18<br>7<br>19<br>9<br>2<br>0<br>0<br>0<br>0   | Str2.2<br>114<br>1021<br>641<br>12<br>388<br>144<br>17<br>123<br>4<br>2<br>39   | Str3.1<br>0<br>0<br>23<br>3<br>32<br>45<br>0<br>6<br>0<br>0<br>0<br>0<br>2  | Str3.2<br>1024<br>3493<br>462<br>116<br>151<br>2148<br>273<br>38<br>0   | Str4.1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>1<br>1<br>0<br>0<br>0<br>0<br>0<br>0   | Str4.2  | Total<br>1226<br>4723<br>2174<br>247<br>566<br>4738<br>3273<br>80<br>1098<br>891<br>44  | CI<br>175<br>129<br>95<br>102<br>53<br>115<br>111<br>68<br>105<br>118<br>181<br>176   | GLM Bid<br>1128<br>2325<br>1771<br>1468<br>788<br>2031<br>2949<br>877<br>951<br>1951<br>1083<br>1760  |
| 1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989<br>1990<br>1991<br>1992<br>1993<br>1994  | Str1.1<br>0<br>13<br>46<br>0<br>245<br>67<br>18<br>0<br>1<br>1<br>0<br>0<br>0<br>0<br>0  | Str1.2<br>83<br>167<br>1019<br>81<br>37<br>3292<br>899<br>53<br>324<br>210<br>4<br>7<br>7<br>34   | Str2.1<br>5<br>29<br>6<br>15<br>18<br>7<br>9<br>9<br>2<br>0<br>0<br>0<br>0<br>0   | Str2.2<br>114<br>1021<br>641<br>112<br>388<br>144<br>17<br>123<br>4<br>2<br>39<br>11  | Str3.1<br>0<br>0<br>23<br>3<br>3<br>2<br>45<br>0<br>6<br>0<br>0<br>0<br>2<br>1  | Str3.2<br>1024<br>3493<br>462<br>116<br>151<br>2148<br>273<br>38<br>0<br>0<br>25  | Str4.1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>1<br>1<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | Str4.2  | Total<br>1226<br>4723<br>2174<br>247<br>566<br>4738<br>3273<br>80<br>1098<br>891<br>44<br>48<br>87  | CI<br>175<br>129<br>95<br>102<br>53<br>115<br>111<br>68<br>105<br>118<br>105<br>118<br>181<br>176<br>73   | GLM Bid<br>1128<br>2325<br>1771<br>1468<br>788<br>2031<br>2949<br>877<br>951<br>1951<br>1083<br>1760<br>877   |
| 1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989<br>1990<br>1991<br>1992<br>1993<br>1994  | Str1.1<br>0<br>13<br>46<br>0<br>245<br>67<br>18<br>0<br>1<br>1<br>0<br>0<br>0<br>0<br>0<br>0   | Str1.2<br>83<br>167<br>1019<br>81<br>37<br>3292<br>899<br>53<br>324<br>210<br>4<br>7<br>34  | Str2.1<br>5<br>29<br>6<br>15<br>18<br>7<br>9<br>9<br>2<br>0<br>0<br>0<br>0<br>0<br>3  | Str2.2<br>114<br>1021<br>641<br>12<br>388<br>144<br>17<br>123<br>4<br>2<br>39<br>11   | Str3.1<br>0<br>0<br>23<br>3<br>3<br>2<br>45<br>0<br>6<br>0<br>0<br>0<br>2<br>11   | Str3.2<br>1024<br>3493<br>462<br>116<br>151<br>2148<br>273<br>38<br>0<br>255<br>27  | Str4.1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | Str4.2  | Total<br>1226<br>4723<br>2174<br>247<br>566<br>4738<br>3273<br>80<br>1098<br>891<br>44<br>48<br>87<br>246   | CI<br>175<br>129<br>95<br>102<br>53<br>115<br>111<br>68<br>105<br>118<br>181<br>176<br>73<br>124  | GLM Bio<br>1128<br>2325<br>1771<br>1468<br>788<br>2031<br>2949<br>877<br>951<br>1951<br>1083<br>1760<br>877   |
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| <ul> <li>ISS</li> <li>1982</li> <li>1983</li> <li>1984</li> <li>1985</li> <li>1986</li> <li>1987</li> <li>1990</li> <li>1991</li> <li>1992</li> <li>1993</li> <li>1994</li> <li>1995</li> <li>1996</li> <li>1997</li> <li>1998</li> <li>1999</li> <li>2000</li> <li>2001</li> <li>2002</li> <li>2003</li> <li>2004</li> <li>2006</li> <li>2007</li> <li>2008</li> <li>2009</li> <li>2008</li> <li>2009</li> </ul> | Str1.1<br>0<br>13<br>46<br>0<br>0<br>245<br>67<br>18<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>8<br>0<br>0<br>0<br>8<br>0<br>0<br>0<br>8<br>0<br>0<br>0<br>8<br>0<br>0<br>0<br>0<br>8<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>245<br>5<br>67<br>7<br>18<br>8<br>7<br>9<br>18<br>9<br>7<br>9<br>5<br>7<br>9<br>7<br>9<br>7<br>9<br>7<br>9<br>7<br>9<br>9<br>7<br>9<br>7<br>9<br>7 | Str1.2<br>83<br>167<br>1019<br>81<br>37<br>3292<br>899<br>53<br>324<br>210<br>4<br>7<br>34<br>7<br>61<br>150<br>27<br>106<br>12<br>124<br>178<br>245  | Str2.1<br>5<br>29<br>6<br>15<br>18<br>7<br>9<br>9<br>2<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>5<br>1<br>2<br>0<br>0<br>0<br>0<br>7<br>4<br>8<br>8<br>1<br>5<br>0<br>0  | Str2.2<br>114<br>1021<br>641<br>12<br>3888<br>144<br>17<br>123<br>388<br>144<br>2<br>399<br>39<br>39<br>39<br>39<br>39<br>39<br>39<br>39<br>39<br>39<br>39<br>39  | Str3.1<br>0<br>0<br>23<br>3<br>3<br>2<br>45<br>0<br>6<br>0<br>0<br>2<br>11<br>5<br>0<br>0<br>3<br>20<br>7<br>7<br>2<br>12<br>0<br>0<br>3<br>3<br>200<br>7<br>7<br>4<br>11<br>17<br>7<br>2<br>12<br>0<br>0<br>13<br>3<br>47<br>7<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10   | Str3.2<br>1024<br>3493<br>462<br>116<br>151<br>2148<br>273<br>38<br>0<br>255<br>277<br>274<br>366<br>77<br>215<br>145<br>522<br>173<br>260<br>219<br>104<br>325<br>323<br>213<br>213  | Str4.1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>9<br>4<br>4<br>19<br>3<br>3<br>4<br>0<br>0<br>0<br>3<br>3<br>4<br>27<br>28<br>28<br>28<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | Str4.2  | Total<br>1226<br>4723<br>2174<br>247<br>566<br>4738<br>3273<br>80<br>1098<br>891<br>44<br>48<br>87<br>248<br>1160<br>3650<br>482<br>430<br>2486<br>2401<br>176<br>2312<br>2006<br>649<br>4633<br>1114<br>570<br>322   | CI<br>175<br>129<br>95<br>102<br>53<br>115<br>111<br>68<br>105<br>118<br>176<br>73<br>131<br>111<br>111<br>135<br>132<br>104<br>98<br>98<br>93<br>109<br>120<br>80<br>95<br>228   | GLM Bid<br>1128<br>2325<br>1771<br>1468<br>788<br>2031<br>2949<br>877<br>951<br>1951<br>1083<br>1760<br>877<br>2805<br>3773<br>3058<br>2397<br>1187<br>2075<br>4169<br>2029<br>5215<br>2506<br>2799<br>4509<br>3558<br>2209<br>1424   |
|   | ance<br>1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1987<br>1998<br>1990<br>1991<br>1992<br>1993<br>1994<br>1995<br>1996<br>1997<br>1998<br>2000<br>2001<br>2002<br>2003<br>2004<br>2005<br>2006<br>2007<br>2008<br>2007<br>2008   | Image         Str1.1           1982         00           1983         30           1984         2215           1985         0           1986         1327           1987         673           1988         141           1989         0           1990         39           1991         0           1992         0           1993         0           1994         0           1995         -           1996         1644           1997         254           1998         0           2000         0           2001         .           2002         .           2003         .           2004         1711           2005         .           2006         0           2007         798           2008         .           2007         798           2008         .           2009         .           2004         . | Image         Image           Str1.1         Str1.2           1982         0         342           1983         30         789           1984         2215         3580           1985         0         300           1986         1227         360           1987         673         14769           1988         141         11507           1989         0         629           1990         39         11786           1991         0         4376           1992         0         46           1993         0         355           1994         0         294           1995         .         .           1995         .         .           1994         0         1868           1995         .         .           1995         .         .           1995         .         .           1995         .         .           2000         .         .           2001         .         .           2002         .         .           2003         . <td>Image         Image         Image           Str1.1         Str1.2         Str2.1           1982         0         342         14           1983         30         789         78           1984         2215         3500         100           1985         0         300         300           1986         1327         360         333           1987         673         14769         37           1988         141         11507         233           1989         0         629         111           1990         39         1178         44           1991         0         436         00           1992         0         46         0           1993         0         335         00           1994         0         294         188           1995         -         -         -           1995         -         -         00           1998         0         336         00           1999         36         858         90           2001         .         -         00           2002</td> <td>lance         lance         lance         lance         lance           Str1.1         Str1.2         Str2.1         Str2.1           1982         0         322         14         354           1983         30         789         2215         3580         100         1664           1985         0         300         30         32         144         354           1984         2215         3580         100         1664         303         303           1986         1327         360         33         303         1985         673         14769         374         1268           1988         141         11507         223         6688         199         109         42490           1990         0         4250         111         109         1991         0         42490           1991         0         435         100         151         193         0         35         0         284           1992         0         464         694         0         259         199         36         858         9         616         370           1998         0         108<!--</td--><td>lance         lance         <thl>lance         lance         &lt;</thl></td><td>lance         lance         <thlance< th="">         lance         <th< td=""><td>lance         lance         <thlance< th="">         lance         <th< td=""><td>lance         lance         <thlance< th="">         lance         <th< td=""><td>lance         lance         <thl>lance         lance         &lt;</thl></td><td>lance         lance         <thlance< th="">         lance         <th< td=""></th<></thlance<></td></th<></thlance<></td></th<></thlance<></td></th<></thlance<></td></td> | Image         Image         Image           Str1.1         Str1.2         Str2.1           1982         0         342         14           1983         30         789         78           1984         2215         3500         100           1985         0         300         300           1986         1327         360         333           1987         673         14769         37           1988         141         11507         233           1989         0         629         111           1990         39         1178         44           1991         0         436         00           1992         0         46         0           1993         0         335         00           1994         0         294         188           1995         -         -         -           1995         -         -         00           1998         0         336         00           1999         36         858         90           2001         .         -         00           2002 | lance         lance         lance         lance         lance           Str1.1         Str1.2         Str2.1         Str2.1           1982         0         322         14         354           1983         30         789         2215         3580         100         1664           1985         0         300         30         32         144         354           1984         2215         3580         100         1664         303         303           1986         1327         360         33         303         1985         673         14769         374         1268           1988         141         11507         223         6688         199         109         42490           1990         0         4250         111         109         1991         0         42490           1991         0         435         100         151         193         0         35         0         284           1992         0         464         694         0         259         199         36         858         9         616         370           1998         0         108 </td <td>lance         lance         <thl>lance         lance         &lt;</thl></td> <td>lance         lance         <thlance< th="">         lance         <th< td=""><td>lance         lance         <thlance< th="">         lance         <th< td=""><td>lance         lance         <thlance< th="">         lance         <th< td=""><td>lance         lance         <thl>lance         lance         &lt;</thl></td><td>lance         lance         <thlance< th="">         lance         <th< td=""></th<></thlance<></td></th<></thlance<></td></th<></thlance<></td></th<></thlance<></td> | lance         lance <thl>lance         lance         &lt;</thl> | lance         lance <thlance< th="">         lance         <th< td=""><td>lance         lance         <thlance< th="">         lance         <th< td=""><td>lance         lance         <thlance< th="">         lance         <th< td=""><td>lance         lance         <thl>lance         lance         &lt;</thl></td><td>lance         lance         <thlance< th="">         lance         <th< td=""></th<></thlance<></td></th<></thlance<></td></th<></thlance<></td></th<></thlance<> | lance         lance <thlance< th="">         lance         <th< td=""><td>lance         lance         <thlance< th="">         lance         <th< td=""><td>lance         lance         <thl>lance         lance         &lt;</thl></td><td>lance         lance         <thlance< th="">         lance         <th< td=""></th<></thlance<></td></th<></thlance<></td></th<></thlance<> | lance         lance <thlance< th="">         lance         <th< td=""><td>lance         lance         <thl>lance         lance         &lt;</thl></td><td>lance         lance         <thlance< th="">         lance         <th< td=""></th<></thlance<></td></th<></thlance<> | lance         lance <thl>lance         lance         &lt;</thl> | lance         lance <thlance< th="">         lance         <th< td=""></th<></thlance<> |

| Length | 1998 | 1999 | 2000  | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 |
|--------|------|------|-------|------|------|------|------|------|------|------|------|------|------|
| 15.5   | 0    | 0    | 0     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 16.5   | 0    | 0    | 0     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 17.5   | 0    | 0    | 10530 | 5250 | 263  | 874  | 1286 | 244  | 613  | 289  | 252  | 16   | 108  |
| 18.5   | 1341 | 987  | 4518  | 5763 | 157  | 1401 | 1232 | 416  | 720  | 1055 | 316  | 24   | 127  |
| 19.5   | 752  | 479  | 3353  | 3910 | 252  | 1104 | 771  | 363  | 709  | 848  | 215  | 11   | 186  |
| 20.5   | 543  | 380  | 1903  | 1827 | 316  | 1003 | 552  | 399  | 686  | 454  | 125  | 33   | 55   |
| 21.5   | 408  | 114  | 635   | 655  | 207  | 891  | 683  | 179  | 841  | 236  | 239  | 6    | 24   |
| 22.5   | 364  | 95   | 733   | 713  | 78   | 1516 | 510  | 217  | 1083 | 259  | 240  | 6    | 88   |
| 23.5   | 264  | 49   | 579   | 519  | 37   | 1613 | 343  | 59   | 1225 | 197  | 227  | 11   | 90   |
| 24.5   | 120  | 85   | 413   | 498  | 23   | 1230 | 503  | 76   | 1105 | 104  | 178  | 18   | 100  |
| 25.5   | 80   | 58   | 264   | 354  | 9    | 325  | 546  | 43   | 943  | 162  | 151  | 39   | 94   |
| 26.5   | 102  | 57   | 214   | 262  | 32   | 290  | 639  | 85   | 786  | 163  | 213  | 104  | 81   |
| 27.5   | 34   | 45   | 130   | 156  | 0    | 405  | 658  | 78   | 865  | 159  | 172  | 116  | 115  |
| 28.5   | 29   | 28   | 85    | 59   | 0    | 386  | 341  | 143  | 923  | 83   | 113  | 122  | 172  |
| 29.5   | 15   | 11   | 59    | 53   | 0    | 250  | 372  | 107  | 1406 | 119  | 72   | 92   | 68   |
| 30.5   | 20   | 9    | 29    | 35   | 0    | 142  | 276  | 283  | 1582 | 120  | 44   | 107  | 82   |
| 31.5   | 0    | 11   | 15    | 30   | 0    | 75   | 141  | 157  | 1051 | 140  | 83   | 49   | 54   |
| 32.5   | 0    | 0    | 29    | 11   | 0    | 55   | 103  | 68   | 866  | 181  | 26   | 31   | 27   |
| 33.5   | 0    | 5    | 7     | 23   | 0    | 15   | 66   | 102  | 569  | 103  | 12   | 63   | 83   |
| 34.5   | 0    | 0    | 7     | 12   | 0    | 19   | 31   | 47   | 261  | 108  | 22   | 39   | 142  |
| 35.5   | 0    | 0    | 0     | 6    | 0    | 4    | 32   | 9    | 108  | 98   | 61   | 33   | 171  |
| 36.5   | 0    | 12   | 0     | 0    | 0    | 0    | 7    | 17   | 139  | 47   | 14   | 23   | 89   |
| 37.5   | 0    | 0    | 6     | 0    | 0    | 7    | 7    | 9    | 66   | 35   | 0    | 6    | 40   |
| 38.5   | 0    | 5    | 0     | 0    | 0    | 0    | 10   | 0    | 65   | 28   | 15   | 0    | 56   |
| 39.5   | 0    | 0    | 0     | 0    | 0    | 0    | 0    | 0    | 106  | 13   | 16   | 0    | 74   |
| 40.5   | 0    | 0    | 0     | 0    | 0    | 0    | 0    | 0    | 7    | 13   | 0    | 6    | 85   |
| 41.5   | 0    | 0    | 0     | 0    | 0    | 0    | 0    | 0    | 38   | 0    | 7    | 6    | 8    |
| 42.5   | 0    | 0    | 0     | 0    | 0    | 0    | 0    | 0    | 0    | 15   | 0    | 0    | 13   |
| 43.5   | 0    | 0    | 0     | 0    | 0    | 0    | 0    | 0    | 0    | 33   | 0    | 0    | 0    |
| 44.5   | 0    | 0    | 0     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 45.5   | 0    | 0    | 0     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 46.5   | 0    | 0    | 0     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 7    | 0    | 0    |
| 47.5   | 0    | 0    | 0     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |

Table 6 *S. mentella* >= 17 cm. Length composition by year ('1000), 1998-2008.

Table 7 *Sebastes. spp.* < 17cm, abundance ('1000) and biomass indices (tons) for West Greenland by stratum and total, 1982-2008. Confidence intervals (CI) are given in per cent of the stratified mean at 95% level of significance for West Greenland.

| Abundar   | nce   |  |  |   |   |  |   |   |             |   |   |
|---|---|--|--|---|---|--|---|---|-------------|---|---|
| Year  |   | Str1.1   | Str1.2   | Str2.1  | Str2.2  | Str3.1   | Str3.2  | Str4.1  | Str4.2      | Total   | CI  |
| 19  | 982   | 1038   | 568  | 205   | 26  | 7  | 42  | 22  |             | 1908  | 36  |
| 19  | 983   | 3356   | 461  | 12  | 134   | 7  | 18  | 17  |             | 4005  | 47  |
| 19  | 984   | 3258   | 3487   | 22  | 242   | 140  | 27  | 9   |             | 7185  | 61  |
| 19  | 985   | 4349   | 11552  | 73  | 2833  | 44   | 84  | 66  |             | 19001   | 77  |
| 19  | 986   | 11303  | 257203   | 136   | 1921  | 60   | 250   | 41  |             | 270914  | 179   |
| 19  | 987   | 11966  | 59044  | 5   | 523   | 20   |   | 0   | 64          | 71622   | 117   |
| 19  | 988   | 17014  | 33545  | 0   | 105   | 21   | 143   | 0   |             | 50828   | 46  |
| 19  | 989   | 7893   | 12887  | 3125  | 6008  | 18   |   | 65  |             | 29996   | 43  |
| 19  | 990   | 12569  | 29587  | 14810   | 207   | 55   |   | 6788  | . 636       | 64652   | 60  |
| 10  | 991   | 63808  | 57993  | 34238   | 23467   | 14469  | . 166   | 863   | 000         | 195004  | 32  |
| 10  | 202   | 30472  | 24488  | 14682   | 19452   | 19895  | 17824   | 73  | 3002        | 130788  | 47  |
| 10  | 202   | 6324   | 48693  | 833   | 14367   | 392  | 3205  | 18  | 0002        | 73832   | 79  |
| 10  | 201   | 3233   | 12607  | 0625  | 3070  | 1160   | 1683  | 10684   | . 11530     | 54501   | 10  |
| 10  | 005   | 5255   | 12007  | 3023  | 5370  | 305  | 10602   | 030   | 18608       | 30625   | 100   |
| 10  | 200   | E07  |  | E901  | 1020E   | 27702  | 14201   | 2012  | 110504      | 106014  | 115   |
| 1   | 990   | 027  | 10092  | 0091  | 10305   | 21102  | 14201   | 2012  | 0707        | 190914  | 70  |
| 1   | 997   | 1000   | 47530  | 50000   | 10080   | 44272  | 22014   | 427   | 00/0/       | 205361  | 12  |
| 1   | 998   | 1695   | 26799  | 53290   | 33500   | 59212  | 19606   | 40732   | 13941       | 248/75  | 61  |
| T:  | 999   | 4023   | 50874  | 1122  | 9062  | 1153   | 8921  | 723   |             | /58/8   | 94  |
| 20  | 000   | 1429   | 11329  | 08  | 3720  | 456  | 9411  | 0   | 39760       | 66185   | 97  |
| 20  | 001   |  |  | 1395  | 4002  | 120  | 2672  | 9   | 1968        | 10166   | 60  |
| 20  | 002   |  |  | 1359  |   | 144  | 1784  | 27  |             | 3314  | 84  |
| 20  | 003   | •  | •  | 431   | 8596  | 124  | 1826  | 30  | 1328        | 12335   | 76  |
| 20  | 004   | 5156   | 12893  | 377   | 5306  | 118  | 1412  | 12  | 1333        | 26607   | 45  |
| 20  | 005   |  |  | 128   | 3075  | 58   | 902   | 0   | 430         | 3920  | 82  |
| 20  | 006   | 1848   | 31048  | 315   | 2655  | 86   | 1131  | 197   | 730         | 32110   | 108   |
| 20  | 007   | 2935   | 13838  | 158   | 991   | 32   | 1262  | 62  | 480         | 16457   | 71  |
| 20  | 008   | 0  |  | 21  | 1277  | 50   | 900   | 23  | 1280        | 3551  | 76  |
| 20  | 009   |  |  | 201   | 560   | 158  | 892   | 66  | 1660        | 3537  | 68  |
| 20  | 010   | 403  | 2244   | 934   | 613   | 591  | 1615  | 64  | 2512        | 8976  | 53  |
|   |   |  |  |   |   |  |   |   |             |   |   |
|   |   |  |  |   |   |  |   |   |             |   |   |
| Biomass   |   |  |  |   |   |  |   |   |             |   |   |
| Biomass<br>Year   |   | Str1.1   | Str1.2   | Str2.1  | Str2.2  | Str3.1   | Str3.2  | Str4.1  | Str4.2      | Total   | CI  |
| Biomass<br>Year   | 982   | Str1.1<br>37   | Str1.2<br>22   | Str2.1<br>10  | Str2.2<br>1   | Str3.1<br>0  | Str3.2<br>2   | Str4.1<br>0   | Str4.2      | Total<br>72   | CI<br>35  |
| Biomass<br>Year<br>19   | 982<br>983  | Str1.1<br>37<br>87   | Str1.2<br>22<br>18   | Str2.1<br>10  | Str2.2<br>1   | Str3.1<br>0  | Str3.2<br>2   | Str4.1<br>0   | Str4.2      | Total<br>72<br>114  | CI<br>35<br>44  |
| Biomass<br>Year<br>19<br>19   | 982<br>983<br>984   | Str1.1<br>37<br>87<br>60   | Str1.2<br>22<br>18<br>97   | Str2.1<br>10<br>1   | Str2.2<br>1<br>6<br>5   | Str3.1<br>0<br>0<br>5  | Str3.2<br>2<br>1  | Str4.1<br>0<br>1  | Str4.2      | Total<br>72<br>114<br>169   | CI<br>35<br>44<br>74  |
| Biomass<br>Year<br>19<br>19<br>19   | 982<br>983<br>984<br>985  | Str1.1<br>37<br>87<br>60<br>83   | Str1.2<br>22<br>18<br>97<br>432  | Str2.1<br>10<br>1<br>1  | Str2.2<br>1<br>6<br>5   | Str3.1<br>0<br>0<br>5<br>2   | Str3.2<br>2<br>1<br>1   | Str4.1<br>0<br>1<br>0<br>2  | Str4.2      | Total<br>72<br>114<br>169<br>591  | CI<br>35<br>44<br>74<br>95  |
| Biomass<br>Year<br>19<br>19<br>19<br>19<br>19   | 982<br>983<br>984<br>985<br>986   | Str1.1<br>37<br>87<br>60<br>83<br>388  | Str1.2<br>22<br>18<br>97<br>432<br>6805  | Str2.1<br>10<br>1<br>3<br>5   | Str2.2<br>1<br>6<br>5<br>65<br>80   | Str3.1<br>0<br>5<br>2<br>2   | Str3.2<br>2<br>1<br>1<br>4<br>8   | Str4.1<br>0<br>1<br>0<br>2  | Str4.2      | Total<br>72<br>114<br>169<br>591<br>7289  | CI<br>35<br>44<br>74<br>95<br>172   |
| Biomass<br>Year<br>19<br>19<br>19<br>19<br>19   | 982<br>983<br>984<br>985<br>986<br>987  | Str1.1<br>37<br>60<br>83<br>388<br>263   | Str1.2<br>22<br>18<br>97<br>432<br>6805<br>2601  | Str2.1<br>10<br>1<br>3<br>5<br>0  | Str2.2<br>1<br>6<br>5<br>65<br>80<br>25   | Str3.1<br>0<br>5<br>2<br>2<br>1  | Str3.2<br>2<br>1<br>1<br>4<br>8   | Str4.1<br>0<br>1<br>0<br>2<br>1   | Str4.2      | Total<br>72<br>114<br>169<br>591<br>7289<br>2893  | CI<br>35<br>44<br>74<br>95<br>172   |
| Biomass<br>Year<br>19<br>19<br>19<br>19<br>19<br>19<br>19                                     | 982<br>983<br>984<br>985<br>986<br>986<br>987   | Str1.1<br>37<br>87<br>60<br>83<br>388<br>263<br>218  | Str1.2<br>22<br>18<br>97<br>432<br>6805<br>2601<br>1147  | Str2.1<br>10<br>1<br>3<br>5<br>0  | Str2.2<br>1<br>6<br>5<br>65<br>80<br>25<br>4  | Str3.1<br>0<br>5<br>2<br>2<br>1  | Str3.2<br>2<br>1<br>1<br>4<br>8   | Str4.1<br>0<br>1<br>0<br>2<br>1<br>0<br>0   | Str4.2<br>3 | Total<br>72<br>114<br>169<br>591<br>7289<br>2893<br>1375  | CI<br>35<br>44<br>74<br>95<br>172<br>132<br>67  |
| Biomass<br>Year<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19                         | 982<br>983<br>984<br>985<br>986<br>987<br>988   | Str1.1<br>37<br>60<br>83<br>388<br>263<br>218<br>90  | Str1.2<br>22<br>18<br>97<br>432<br>6805<br>2601<br>1147<br>236   | Str2.1<br>10<br>1<br>3<br>5<br>0<br>0<br>23   | Str2.2<br>1<br>6<br>5<br>65<br>80<br>25<br>4<br>55  | Str3.1<br>0<br>5<br>2<br>2<br>2<br>1<br>1  | Str3.2<br>2<br>1<br>1<br>4<br>8<br>5  | Str4.1<br>0<br>1<br>0<br>2<br>1<br>0<br>0<br>0  | Str4.2<br>3 | Total<br>72<br>114<br>169<br>591<br>7289<br>2893<br>1375<br>405   | CI<br>35<br>44<br>74<br>95<br>172<br>132<br>67<br>46  |
| Biomass<br>Year<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19             | 982<br>983<br>984<br>985<br>986<br>986<br>987<br>988<br>989   | Str1.1<br>37<br>87<br>60<br>83<br>388<br>263<br>218<br>90<br>113   | Str1.2<br>22<br>18<br>97<br>432<br>6805<br>2601<br>1147<br>236<br>98   | Str2.1<br>10<br>1<br>3<br>5<br>0<br>0<br>23<br>63   | Str2.2<br>1<br>65<br>65<br>80<br>25<br>4<br>55  | Str3.1<br>0<br>5<br>2<br>2<br>1<br>1<br>0<br>0   | Str3.2<br>2<br>1<br>1<br>4<br>8<br>5  | Str4.1<br>0<br>1<br>0<br>2<br>1<br>0<br>0<br>0<br>1<br>1  | Str4.2      | Total<br>72<br>114<br>169<br>591<br>7289<br>2893<br>1375<br>405<br>287  | CI<br>35<br>44<br>74<br>95<br>172<br>132<br>67<br>46  |
| Biomass<br>Year<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19       | 982<br>983<br>984<br>985<br>986<br>987<br>988<br>989<br>989<br>990  | Str1.1<br>37<br>60<br>83<br>388<br>263<br>218<br>90<br>113<br>226  | Str1.2<br>22<br>18<br>97<br>432<br>6805<br>2601<br>1147<br>236<br>98<br>637  | Str2.1<br>10<br>1<br>3<br>5<br>0<br>0<br>23<br>63<br>71   | Str2.2<br>1<br>6<br>5<br>65<br>80<br>25<br>4<br>55<br>2<br>2<br>252   | Str3.1<br>0<br>5<br>2<br>2<br>2<br>1<br>1<br>0<br>0<br>0   | Str3.2<br>2<br>1<br>4<br>8<br>5<br>2  | Str4.1<br>0<br>1<br>0<br>2<br>1<br>0<br>0<br>1<br>10<br>2   | Str4.2      | Total<br>72<br>114<br>169<br>591<br>7289<br>2893<br>1375<br>405<br>287<br>1221  | CI<br>35<br>44<br>74<br>95<br>172<br>132<br>67<br>46<br>49  |
| Biomass<br>Year<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19 | 982<br>983<br>984<br>985<br>986<br>986<br>987<br>988<br>989<br>989<br>990<br>991  | Str1.1<br>37<br>60<br>83<br>388<br>263<br>218<br>90<br>113<br>226  | Str1.2<br>22<br>18<br>97<br>432<br>6805<br>2601<br>1147<br>236<br>98<br>637<br>511   | Str2.1<br>10<br>1<br>3<br>5<br>0<br>0<br>23<br>63<br>71<br>55   | Str2.2<br>1<br>65<br>65<br>80<br>25<br>4<br>55<br>2<br>2<br>252<br>252  | Str3.1<br>0<br>5<br>2<br>2<br>1<br>1<br>1<br>0<br>0<br>0<br>31   | Str3.2<br>2<br>1<br>4<br>8<br>5<br>2<br>2<br>296  | Str4.1<br>0<br>1<br>0<br>2<br>1<br>0<br>0<br>0<br>1<br>1<br>0<br>0<br>2<br>2  | Str4.2      | Total<br>72<br>114<br>169<br>591<br>7289<br>2893<br>1375<br>405<br>287<br>1221<br>1211  | CI<br>35<br>44<br>74<br>95<br>172<br>132<br>67<br>46<br>49<br>54  |
| Biomass<br>Year<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19 | 982<br>983<br>984<br>985<br>986<br>987<br>988<br>989<br>990<br>991<br>992   | Str1.1<br>37<br>60<br>83<br>388<br>263<br>218<br>90<br>113<br>226<br>175   | Str1.2<br>22<br>18<br>97<br>432<br>6805<br>2601<br>1147<br>236<br>98<br>637<br>511<br>622  | Str2.1<br>10<br>1<br>3<br>5<br>0<br>0<br>23<br>63<br>71<br>55<br>20   | Str2.2<br>1<br>6<br>5<br>65<br>80<br>25<br>4<br>55<br>2<br>2<br>55<br>2<br>252<br>152<br>237  | Str3.1<br>0<br>5<br>2<br>2<br>1<br>1<br>1<br>0<br>0<br>31<br>71  | Str3.2<br>2<br>1<br>4<br>8<br>5<br>2<br>2<br>286<br>97  | Str4.1<br>0<br>1<br>0<br>2<br>1<br>0<br>0<br>0<br>1<br>10<br>2<br>2<br>1  | Str4.2      | Total<br>72<br>114<br>169<br>591<br>7289<br>2893<br>1375<br>405<br>287<br>1221<br>1311  | CI<br>35<br>44<br>74<br>95<br>172<br>132<br>67<br>46<br>49<br>54<br>61  |
| Biomass<br>Year<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19 | 982<br>983<br>984<br>985<br>986<br>987<br>988<br>989<br>990<br>991<br>991<br>992<br>993   | Str1.1<br>37<br>60<br>83<br>388<br>263<br>218<br>90<br>113<br>226<br>175<br>8<br>325   | Str1.2<br>22<br>18<br>97<br>432<br>6805<br>2601<br>1147<br>236<br>98<br>637<br>511<br>623<br>220   | Str2.1<br>10<br>1<br>3<br>5<br>0<br>0<br>0<br>23<br>63<br>71<br>55<br>200<br>54   | Str2.2<br>1<br>65<br>80<br>25<br>4<br>55<br>2<br>252<br>152<br>337<br>5   | Str3.1<br>0<br>5<br>2<br>2<br>1<br>1<br>1<br>0<br>0<br>31<br>71<br>71<br>20  | Str3.2<br>2<br>1<br>1<br>4<br>8   | Str4.1<br>0<br>1<br>0<br>2<br>1<br>0<br>0<br>0<br>1<br>1<br>0<br>2<br>2<br>2<br>1<br>1<br>2   | Str4.2      | Total<br>72<br>114<br>169<br>591<br>7289<br>2893<br>1375<br>405<br>287<br>1221<br>1311<br>1158<br>019   | CI<br>35<br>44<br>74<br>95<br>172<br>132<br>67<br>46<br>49<br>54<br>61<br>88  |
| Biomass<br>Year<br>15<br>15<br>15<br>15<br>15<br>15<br>15<br>15<br>15<br>15<br>15<br>15<br>15 | 982<br>983<br>984<br>985<br>986<br>987<br>988<br>989<br>990<br>991<br>991<br>992<br>993<br>994  | Str1.1<br>37<br>60<br>83<br>388<br>263<br>218<br>90<br>113<br>226<br>175<br>83<br>25   | Str1.2<br>22<br>18<br>97<br>432<br>6805<br>2601<br>11147<br>236<br>98<br>637<br>511<br>623<br>229  | Str2.1<br>10<br>1<br>3<br>5<br>0<br>0<br>23<br>63<br>71<br>55<br>20<br>54   | Str2.2<br>1<br>65<br>80<br>25<br>4<br>55<br>2<br>55<br>252<br>152<br>337<br>58  | Str3.1<br>0<br>5<br>2<br>2<br>2<br>1<br>1<br>0<br>0<br>31<br>71<br>7<br>30   | Str3.2<br>2<br>1<br>1<br>4<br>8<br>286<br>87<br>63<br>244   | Str4.1<br>0<br>1<br>0<br>2<br>1<br>0<br>0<br>0<br>1<br>1<br>0<br>2<br>2<br>2<br>1<br>138  | Str4.2      | Total<br>72<br>114<br>169<br>591<br>7289<br>2893<br>1375<br>405<br>287<br>1221<br>1311<br>1158<br>918   | CI<br>35<br>44<br>74<br>95<br>172<br>132<br>67<br>46<br>49<br>54<br>61<br>88<br>52  |
| Biomass<br>Year<br>15<br>15<br>15<br>15<br>15<br>15<br>15<br>15<br>15<br>15<br>15<br>15<br>15 | 982<br>983<br>984<br>985<br>986<br>987<br>988<br>989<br>990<br>991<br>992<br>993<br>994<br>995  | Str1.1<br>37<br>87<br>60<br>83<br>388<br>263<br>218<br>90<br>113<br>226<br>175<br>83<br>25   | Str1.2<br>22<br>18<br>97<br>432<br>6805<br>2601<br>1147<br>236<br>98<br>637<br>511<br>623<br>229   | Str2.1<br>10<br>1<br>3<br>5<br>0<br>0<br>23<br>63<br>71<br>55<br>20<br>54   | Str2.2<br>1<br>6<br>5<br>65<br>80<br>25<br>4<br>55<br>2<br>2<br>52<br>252<br>152<br>337<br>58   | Str3.1<br>0<br>5<br>2<br>2<br>1<br>1<br>1<br>0<br>0<br>3<br>1<br>7<br>1<br>7<br>30<br>6  | Str3.2<br>2<br>1<br>1<br>4<br>8<br>5<br>2<br>286<br>87<br>63<br>344   | Str4.1<br>0<br>1<br>0<br>2<br>1<br>0<br>0<br>0<br>1<br>1<br>0<br>2<br>2<br>2<br>1<br>1<br>388<br>10<br>0  | Str4.2      | Total<br>72<br>114<br>169<br>591<br>7289<br>2893<br>1375<br>405<br>287<br>1221<br>1311<br>1158<br>918<br>894  | CI<br>35<br>44<br>74<br>95<br>172<br>132<br>67<br>46<br>49<br>54<br>61<br>88<br>52<br>101   |
| Biomass<br>Year<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19 | 982<br>983<br>984<br>985<br>986<br>987<br>988<br>989<br>990<br>991<br>992<br>993<br>994<br>995<br>996   | Str1.1<br>37<br>87<br>60<br>83<br>388<br>263<br>218<br>90<br>113<br>226<br>175<br>83<br>25<br>4  | Str1.2<br>22<br>18<br>97<br>432<br>6805<br>2601<br>1147<br>236<br>98<br>637<br>511<br>623<br>229   | Str2.1<br>10<br>1<br>3<br>5<br>0<br>0<br>0<br>23<br>63<br>71<br>55<br>20<br>55<br>20<br>54  | Str2.2<br>1<br>6<br>5<br>80<br>25<br>4<br>55<br>2<br>2<br>52<br>252<br>152<br>337<br>58<br>129  | Str3.1<br>0<br>0<br>5<br>2<br>2<br>2<br>1<br>0<br>0<br>0<br>31<br>71<br>7<br>30<br>6<br>94   | Str3.2<br>2<br>1<br>4<br>8<br>5<br>2<br>286<br>87<br>63<br>344<br>361   | Str4.1<br>0<br>1<br>0<br>2<br>1<br>0<br>0<br>0<br>1<br>1<br>0<br>2<br>2<br>1<br>1<br>388<br>10<br>222   | Str4.2      | Total<br>72<br>114<br>169<br>591<br>7289<br>2893<br>1375<br>405<br>287<br>1221<br>1311<br>1111<br>1158<br>918<br>894<br>4638  | CI<br>35<br>44<br>74<br>95<br>172<br>132<br>67<br>46<br>49<br>54<br>61<br>88<br>52<br>101<br>155  |
| Biomass<br>Year<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19 | 982<br>983<br>984<br>985<br>986<br>987<br>988<br>989<br>990<br>991<br>992<br>993<br>994<br>995<br>996<br>997  | Str1.1<br>37<br>60<br>83<br>388<br>263<br>218<br>90<br>113<br>226<br>175<br>83<br>25<br>4<br>65  | Str1.2<br>22<br>18<br>97<br>432<br>6805<br>2601<br>1147<br>236<br>98<br>637<br>511<br>623<br>229   | Str2.1<br>10<br>1<br>3<br>5<br>0<br>0<br>23<br>63<br>71<br>55<br>20<br>55<br>20<br>54<br>15<br>0  | Str2.2<br>1<br>65<br>65<br>25<br>4<br>55<br>2<br>252<br>252<br>152<br>337<br>58<br>129<br>207   | Str3.1<br>0<br>5<br>2<br>2<br>2<br>1<br>1<br>0<br>0<br>0<br>311<br>71<br>7<br>300<br>6<br>944<br>167   | Str3.2<br>2<br>1<br>4<br>8<br>5<br>2<br>286<br>87<br>63<br>344<br>361<br>592  | Str4.1<br>0<br>1<br>0<br>2<br>1<br>0<br>0<br>1<br>1<br>0<br>2<br>2<br>1<br>1<br>38<br>10<br>22<br>14<br>4   | Str4.2      | Total<br>72<br>114<br>169<br>591<br>7289<br>2893<br>1375<br>405<br>287<br>1221<br>1311<br>1158<br>918<br>894<br>4638<br>3846  | Cl<br>35<br>44<br>74<br>95<br>172<br>132<br>67<br>46<br>49<br>54<br>61<br>88<br>52<br>101<br>155<br>110<br>52   |
| Biomass<br>Year<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19 | 982<br>983<br>984<br>985<br>986<br>987<br>988<br>989<br>990<br>991<br>992<br>993<br>994<br>995<br>996<br>997<br>998   | Str1.1<br>37<br>60<br>83<br>388<br>263<br>218<br>90<br>113<br>226<br>175<br>83<br>25<br>4<br>65<br>20  | Str1.2<br>22<br>18<br>97<br>432<br>6805<br>2601<br>1147<br>236<br>98<br>637<br>511<br>623<br>229   | Str2.1<br>10<br>1<br>3<br>3<br>5<br>0<br>0<br>2<br>3<br>6<br>3<br>7<br>1<br>55<br>20<br>5<br>4<br>15<br>0<br>174  | Str2.2<br>1<br>65<br>65<br>25<br>4<br>55<br>2<br>252<br>252<br>152<br>337<br>58<br>129<br>207<br>346  | Str3.1<br>0<br>0<br>2<br>2<br>2<br>1<br>1<br>1<br>0<br>0<br>0<br>311<br>71<br>7<br>300<br>6<br>94<br>167<br>235  | Str3.2<br>2<br>1<br>4<br>8<br>5<br>286<br>87<br>63<br>344<br>361<br>592<br>453  | Str4.1<br>0<br>1<br>0<br>2<br>1<br>1<br>0<br>0<br>0<br>1<br>1<br>0<br>2<br>2<br>1<br>1<br>138<br>10<br>22<br>14<br>154  | Str4.2      | Total<br>72<br>114<br>169<br>591<br>7289<br>2893<br>1375<br>405<br>287<br>1221<br>1311<br>1158<br>918<br>894<br>4638<br>3846<br>2390  | Cl<br>35<br>44<br>74<br>95<br>172<br>132<br>67<br>46<br>49<br>54<br>61<br>88<br>52<br>101<br>155<br>110<br>53   |
| Biomass<br>Year<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19 | 982<br>983<br>984<br>985<br>986<br>987<br>988<br>989<br>990<br>991<br>992<br>993<br>994<br>995<br>996<br>997<br>998<br>999  | Str1.1<br>37<br>87<br>60<br>83<br>388<br>263<br>218<br>90<br>113<br>226<br>175<br>83<br>225<br>4<br>65<br>20<br>57   | Str1.2<br>22<br>18<br>97<br>432<br>6805<br>2601<br>1147<br>236<br>98<br>637<br>511<br>623<br>229<br>310<br>354<br>452<br>858               | Str2.1<br>10<br>1<br>3<br>5<br>0<br>0<br>23<br>63<br>71<br>55<br>20<br>54<br>15<br>0<br>174<br>14   | Str2.2<br>1<br>6<br>5<br>65<br>800<br>25<br>4<br>55<br>2<br>252<br>152<br>337<br>58<br>129<br>207<br>346<br>187   | Str3.1<br>0<br>0<br>5<br>2<br>2<br>1<br>1<br>1<br>1<br>0<br>0<br>0<br>3<br>11<br>7<br>1<br>7<br>30<br>6<br>94<br>167<br>235<br>17  | Str3.2<br>2<br>1<br>4<br>8  | Str4.1<br>0<br>1<br>0<br>2<br>1<br>0<br>0<br>0<br>1<br>1<br>0<br>2<br>2<br>1<br>1<br>3<br>8<br>10<br>22<br>14<br>154<br>154   | Str4.2      | Total<br>72<br>114<br>169<br>591<br>7289<br>2893<br>1375<br>405<br>287<br>1221<br>1311<br>1158<br>918<br>894<br>4638<br>3846<br>2390<br>1436  | Cl<br>35<br>44<br>74<br>95<br>172<br>132<br>67<br>46<br>49<br>54<br>61<br>88<br>52<br>101<br>155<br>110<br>53<br>84   |
| Biomass<br>Year<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19 | 982<br>983<br>984<br>985<br>986<br>987<br>988<br>989<br>990<br>991<br>992<br>993<br>994<br>995<br>996<br>997<br>998<br>999<br>999   | Str1.1<br>37<br>60<br>83<br>388<br>263<br>218<br>90<br>113<br>226<br>175<br>83<br>225<br>4<br>65<br>20<br>57<br>34   | Str1.2<br>22<br>18<br>97<br>432<br>6805<br>2601<br>1147<br>236<br>98<br>637<br>511<br>623<br>229   | Str2.1<br>10<br>1<br>1<br>3<br>5<br>0<br>0<br>0<br>23<br>63<br>71<br>55<br>20<br>54<br>15<br>0<br>174<br>14<br>2  | Str2.2<br>1<br>6<br>5<br>80<br>25<br>4<br>55<br>22<br>252<br>152<br>337<br>58<br>129<br>207<br>346<br>187<br>129  | Str3.1<br>0<br>5<br>2<br>2<br>1<br>1<br>1<br>1<br>0<br>0<br>3<br>1<br>7<br>1<br>7<br>30<br>6<br>94<br>167<br>235<br>17<br>15   | Str3.2<br>2<br>1<br>1<br>4<br>8<br>5<br>2<br>286<br>87<br>63<br>344<br>361<br>592<br>453<br>288<br>326  | Str4.1<br>0<br>1<br>0<br>2<br>1<br>1<br>0<br>0<br>0<br>1<br>1<br>10<br>2<br>2<br>2<br>1<br>1<br>3<br>8<br>10<br>22<br>14<br>4<br>154<br>15<br>4<br>0<br>0   | Str4.2      | Total<br>72<br>114<br>169<br>591<br>7289<br>2893<br>1375<br>405<br>287<br>1221<br>1311<br>1158<br>918<br>894<br>4638<br>3846<br>2390<br>1436<br>2390<br>1436  | Cl<br>35<br>44<br>74<br>95<br>172<br>132<br>67<br>46<br>67<br>46<br>9<br>54<br>61<br>55<br>101<br>155<br>110<br>53<br>84<br>112   |
| Biomass<br>Year<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19 | 982<br>983<br>984<br>985<br>986<br>987<br>988<br>989<br>990<br>991<br>992<br>993<br>994<br>995<br>996<br>997<br>998<br>999<br>000<br>001  | Str1.1<br>37<br>87<br>60<br>83<br>88<br>263<br>218<br>90<br>113<br>226<br>175<br>83<br>225<br>4<br>65<br>20<br>57<br>34  | Str1.2<br>22<br>18<br>97<br>432<br>6805<br>2601<br>1147<br>236<br>98<br>637<br>511<br>623<br>229<br>310<br>354<br>452<br>858<br>289        | Str2.1<br>10<br>1<br>3<br>5<br>0<br>0<br>23<br>63<br>71<br>55<br>20<br>55<br>20<br>54<br>15<br>0<br>0<br>174<br>14<br>2<br>8  | Str2.2<br>1<br>6<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>2<br>5<br>2<br>5<br>2<br>5<br>2<br>5<br>2<br>5<br>2   | Str3.1<br>0<br>0<br>5<br>2<br>2<br>2<br>2<br>1<br>1<br>1<br>0<br>0<br>31<br>1<br>71<br>7<br>30<br>6<br>94<br>167<br>235<br>317<br>7<br>15<br>5   | Str3.2<br>2<br>1<br>1<br>4<br>8<br>5<br>2<br>2866<br>87<br>63<br>344<br>361<br>592<br>453<br>288<br>3266<br>99  | Str4.1<br>0<br>1<br>0<br>2<br>1<br>1<br>0<br>0<br>0<br>1<br>1<br>10<br>2<br>2<br>2<br>2<br>1<br>1<br>338<br>10<br>22<br>14<br>155<br>0<br>0<br>0  | Str4.2      | Total<br>72<br>114<br>169<br>591<br>7289<br>2893<br>1375<br>405<br>287<br>1221<br>1311<br>1158<br>918<br>894<br>4638<br>3846<br>2390<br>1436<br>2390<br>1436<br>2491<br>279   | Cl<br>35<br>44<br>74<br>95<br>172<br>132<br>67<br>46<br>49<br>49<br>49<br>54<br>61<br>88<br>852<br>101<br>155<br>110<br>53<br>84<br>112<br>69   |
| Biomass<br>Year<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19 | 982<br>983<br>984<br>985<br>986<br>987<br>988<br>989<br>990<br>991<br>991<br>992<br>993<br>994<br>995<br>996<br>997<br>998<br>999<br>000<br>001<br>002  | Str1.1<br>37<br>87<br>60<br>83<br>3888<br>263<br>218<br>90<br>113<br>226<br>175<br>83<br>225<br>4<br>65<br>20<br>0<br>7<br>34  | Str1.2<br>22<br>18<br>97<br>432<br>6805<br>2601<br>1147<br>236<br>98<br>637<br>511<br>623<br>229   | Str2.1<br>10<br>1<br>3<br>5<br>0<br>0<br>23<br>63<br>71<br>55<br>20<br>54   | Str2.2<br>1<br>6<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>8<br>0<br>2<br>5<br>2<br>2<br>5<br>2<br>2<br>5<br>2<br>5<br>2<br>5<br>2<br>5<br>7<br>3<br>37<br>7<br>5<br>8<br>8<br>0<br>2<br>5<br>5<br>7<br>2<br>5<br>5<br>7<br>5<br>7<br>8<br>0<br>2<br>5<br>7<br>8<br>0<br>2<br>5<br>7<br>8<br>0<br>0<br>2<br>5<br>7<br>8<br>0<br>2<br>5<br>7<br>8<br>0<br>2<br>5<br>7<br>8<br>0<br>2<br>5<br>7<br>8<br>0<br>2<br>5<br>7<br>8<br>0<br>2<br>5<br>7<br>8<br>0<br>2<br>5<br>7<br>8<br>0<br>2<br>5<br>7<br>8<br>0<br>2<br>5<br>7<br>8<br>0<br>2<br>5<br>7<br>8<br>0<br>2<br>5<br>7<br>8<br>0<br>2<br>5<br>7<br>8<br>0<br>2<br>5<br>7<br>8<br>0<br>2<br>5<br>7<br>8<br>0<br>2<br>5<br>7<br>8<br>0<br>2<br>5<br>7<br>8<br>0<br>2<br>5<br>7<br>8<br>0<br>2<br>5<br>7<br>8<br>0<br>2<br>5<br>7<br>8<br>0<br>2<br>5<br>7<br>8<br>0<br>2<br>5<br>5<br>7<br>7<br>2<br>5<br>5<br>8<br>0<br>2<br>5<br>5<br>7<br>5<br>7<br>5<br>7<br>7<br>2<br>5<br>5<br>7<br>7<br>7<br>7<br>7<br>5<br>7<br>7<br>7<br>7 | Str3.1<br>0<br>0<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>1<br>1<br>0<br>0<br>31<br>711<br>7<br>30<br>6<br>94<br>167<br>235<br>15<br>5<br>5<br>1  | Str3.2<br>2<br>1<br>4<br>8<br>5<br>2<br>286<br>87<br>63<br>344<br>361<br>592<br>453<br>288<br>326<br>99<br>34   | Str4.1<br>0<br>1<br>0<br>2<br>1<br>1<br>0<br>0<br>0<br>1<br>1<br>10<br>2<br>2<br>1<br>1<br>138<br>10<br>22<br>14<br>154<br>155<br>0<br>0<br>0<br>0<br>1   | Str4.2      | Total<br>72<br>114<br>169<br>591<br>7289<br>2893<br>1375<br>405<br>287<br>1221<br>1311<br>1111<br>1311<br>1158<br>918<br>894<br>4638<br>3846<br>2390<br>1436<br>2491<br>279<br>48                                     | Cl<br>35<br>44<br>74<br>95<br>172<br>132<br>67<br>46<br>49<br>54<br>61<br>88<br>52<br>101<br>155<br>100<br>53<br>84<br>112<br>69<br>93  |
| Biomass<br>Year<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19 | 982<br>983<br>984<br>985<br>986<br>987<br>988<br>989<br>990<br>991<br>992<br>993<br>994<br>995<br>996<br>997<br>998<br>999<br>000<br>001<br>002<br>003  | Str1.1<br>37<br>87<br>60<br>83<br>388<br>263<br>218<br>90<br>113<br>226<br>1755<br>83<br>325<br>4<br>65<br>20<br>57<br>34  | Str1.2<br>22<br>18<br>97<br>432<br>6805<br>2601<br>1147<br>236<br>98<br>637<br>511<br>623<br>229   | Str2.1<br>10<br>1<br>3<br>5<br>0<br>0<br>23<br>63<br>71<br>55<br>20<br>54<br>15<br>0<br>174<br>14<br>2<br>8<br>12<br>10   | Str2.2<br>1<br>6<br>5<br>5<br>5<br>5<br>5<br>8<br>0<br>2<br>5<br>2<br>2<br>5<br>2<br>2<br>5<br>2<br>2<br>5<br>2<br>2<br>5<br>2<br>3<br>3<br>7<br>3<br>5<br>8  | Str3.1<br>0<br>0<br>2<br>2<br>2<br>2<br>2<br>2<br>1<br>1<br>1<br>0<br>0<br>0<br>311<br>771<br>7<br>300<br>6<br>944<br>167<br>2355<br>17<br>5<br>5<br>5<br>1  | Str3.2<br>2<br>1<br>4<br>8<br>5<br>2<br>286<br>87<br>63<br>344<br>361<br>592<br>453<br>288<br>326<br>99<br>934<br>43  | Str4.1<br>0<br>1<br>0<br>2<br>1<br>1<br>0<br>0<br>1<br>1<br>0<br>2<br>2<br>1<br>1<br>338<br>10<br>22<br>14<br>154<br>155<br>0<br>0<br>0<br>1<br>1   | Str4.2      | Total<br>72<br>114<br>169<br>591<br>7289<br>2893<br>1375<br>405<br>287<br>1221<br>1311<br>1158<br>918<br>894<br>4638<br>3846<br>2390<br>1436<br>2491<br>279<br>48<br>255  | Cl<br>35<br>44<br>74<br>95<br>172<br>132<br>46<br>67<br>46<br>49<br>54<br>61<br>88<br>52<br>101<br>155<br>110<br>53<br>84<br>112<br>69<br>93<br>73  |
| Biomass<br>Year<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19 | 982<br>983<br>984<br>985<br>986<br>987<br>988<br>989<br>990<br>991<br>992<br>993<br>994<br>995<br>996<br>997<br>998<br>999<br>000<br>001<br>002<br>003<br>004   | Str1.1<br>37<br>87<br>60<br>83<br>388<br>263<br>218<br>90<br>113<br>226<br>175<br>83<br>225  | Str1.2<br>22<br>18<br>97<br>432<br>6805<br>2601<br>1147<br>236<br>98<br>637<br>511<br>623<br>229   | Str2.1<br>10<br>1<br>3<br>5<br>0<br>0<br>23<br>63<br>71<br>55<br>20<br>54<br>15<br>0<br>174<br>14<br>2<br>8<br>8<br>12<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10  | Str2.2<br>1<br>6<br>5<br>5<br>80<br>2<br>5<br>5<br>2<br>2<br>5<br>2<br>2<br>5<br>2<br>2<br>5<br>2<br>2<br>5<br>2<br>3<br>3<br>7<br>5<br>8<br>129<br>207<br>3<br>3<br>6<br>6<br>5  | Str3.1<br>0<br>0<br>2<br>2<br>2<br>2<br>2<br>1<br>1<br>1<br>0<br>0<br>0<br>31<br>77<br>7<br>30<br>6<br>94<br>167<br>235<br>17<br>5<br>5<br>1<br>1<br>5<br>1<br>1<br>4  | Str3.2<br>2<br>1<br>4<br>8<br>5<br>2866<br>87<br>63<br>344<br>361<br>592<br>453<br>288<br>326<br>99<br>34<br>43<br>99   | Str4.1<br>0<br>1<br>0<br>2<br>1<br>1<br>0<br>0<br>0<br>1<br>1<br>1<br>38<br>10<br>22<br>1<br>1<br>138<br>10<br>22<br>14<br>154<br>155<br>0<br>0<br>1<br>1<br>1<br>1   | Str4.2      | Total<br>72<br>114<br>169<br>591<br>7289<br>2893<br>1375<br>405<br>287<br>1221<br>1315<br>1158<br>8914<br>4638<br>3846<br>2390<br>1436<br>2390<br>1436<br>2491<br>279<br>48<br>2255<br>704                            | Cl<br>35<br>44<br>74<br>95<br>172<br>132<br>67<br>46<br>49<br>54<br>61<br>88<br>85<br>101<br>155<br>110<br>53<br>84<br>112<br>93<br>73<br>60  |
| Biomass<br>Year<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19 | 982<br>983<br>984<br>985<br>986<br>987<br>988<br>990<br>991<br>992<br>993<br>994<br>995<br>996<br>997<br>998<br>999<br>000<br>001<br>002<br>003<br>004<br>005   | Str1.1<br>37<br>87<br>60<br>83<br>388<br>263<br>218<br>90<br>0<br>226<br>175<br>83<br>225  | Str1.2<br>22<br>18<br>97<br>432<br>6805<br>2601<br>1147<br>236<br>98<br>637<br>511<br>623<br>229<br>310<br>354<br>452<br>858<br>289<br>351 | Str2.1<br>10<br>1<br>1<br>3<br>5<br>0<br>0<br>0<br>23<br>63<br>71<br>55<br>20<br>54<br>15<br>0<br>174<br>14<br>2<br>8<br>12<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10   | Str2.2<br>1<br>6<br>5<br>5<br>6<br>5<br>8<br>0<br>2<br>5<br>8<br>2<br>2<br>2<br>5<br>2<br>2<br>2<br>5<br>2<br>2<br>5<br>8<br>3<br>37<br>5<br>8<br>3<br>7<br>3<br>37<br>5<br>8<br>2<br>07<br>3<br>4<br>6<br>129<br>207<br>3<br>346<br>187<br>7<br>3<br>4<br>6<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5  | Str3.1<br>0<br>5<br>2<br>2<br>2<br>1<br>1<br>1<br>1<br>0<br>0<br>0<br>3<br>1<br>7<br>7<br>30<br>6<br>94<br>167<br>235<br>17<br>15<br>5<br>5<br>17<br>15<br>4<br>0<br>0<br>0<br>4<br>16<br>7<br>17<br>15<br>5<br>0<br>17<br>10<br>0<br>0<br>5<br>2<br>2<br>2<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1        | Str3.2<br>2<br>1<br>1<br>4<br>8<br>5<br>2<br>286<br>87<br>63<br>344<br>361<br>592<br>453<br>288<br>326<br>99<br>34<br>433<br>288<br>326<br>99<br>34<br>23   | Str4.1<br>0<br>1<br>0<br>2<br>1<br>0<br>0<br>0<br>1<br>1<br>1<br>3<br>8<br>10<br>22<br>14<br>154<br>154<br>154<br>0<br>0<br>0<br>1<br>1<br>1<br>0<br>0<br>0<br>1<br>1<br>1<br>1<br>0<br>0<br>0<br>0<br>1<br>1<br>1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | Str4.2      | Total<br>72<br>114<br>169<br>591<br>7289<br>2893<br>1375<br>405<br>287<br>1221<br>1311<br>1158<br>918<br>894<br>4638<br>3846<br>2390<br>1436<br>2390<br>1436<br>2491<br>279<br>48<br>255<br>704<br>93                 | Cl<br>35<br>44<br>74<br>95<br>172<br>132<br>67<br>46<br>61<br>61<br>88<br>54<br>61<br>88<br>52<br>101<br>155<br>105<br>110<br>53<br>84<br>112<br>69<br>93<br>3<br>73<br>60<br>94                                  |
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| Biomass<br>Year<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19 | 982<br>983<br>984<br>985<br>986<br>987<br>988<br>990<br>991<br>992<br>993<br>994<br>995<br>996<br>997<br>998<br>999<br>000<br>001<br>002<br>000<br>001<br>002<br>003<br>004<br>005<br>006               | Str1.1<br>37<br>87<br>60<br>83<br>388<br>263<br>218<br>90<br>113<br>226<br>175<br>83<br>225<br>4<br>65<br>57<br>34   | Str1.2<br>22<br>18<br>97<br>432<br>6805<br>2601<br>1147<br>236<br>98<br>637<br>511<br>623<br>229<br>310<br>354<br>452<br>858<br>289        | Str2.1<br>10<br>1<br>1<br>3<br>5<br>0<br>0<br>23<br>63<br>71<br>55<br>20<br>54<br>15<br>0<br>174<br>14<br>2<br>8<br>12<br>10<br>10<br>4<br>9<br>3   | Str2.2<br>1<br>6<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>8<br>0<br>2<br>5<br>2<br>2<br>5<br>2<br>2<br>5<br>2<br>152<br>337<br>5<br>8<br>*<br>129<br>207<br>3<br>346<br>187<br>129<br>73<br>346<br>187<br>73<br>28<br>8<br>2<br>2<br>2<br>2<br>2<br>5<br>2<br>2<br>2<br>2<br>2<br>5<br>5<br>5<br>5<br>5<br>5   | Str3.1<br>0<br>0<br>5<br>2<br>2<br>2<br>2<br>1<br>1<br>1<br>0<br>0<br>31<br>7<br>1<br>7<br>30<br>6<br>9<br>4<br>167<br>235<br>7<br>15<br>5<br>11<br>1<br>4<br>0<br>0<br>2<br>30<br>7<br>7<br>15<br>5<br>0<br>1<br>2<br>30<br>7<br>7<br>15<br>5<br>0<br>0<br>0<br>1<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2 | Str3.2<br>2<br>1<br>1<br>4<br>8<br>5<br>2<br>286<br>87<br>63<br>344<br>361<br>592<br>453<br>288<br>326<br>99<br>34<br>453<br>288<br>326<br>99<br>34<br>453<br>288<br>326<br>99<br>34<br>199<br>23<br>24 | Str4.1<br>0<br>1<br>0<br>2<br>1<br>1<br>0<br>0<br>1<br>1<br>1<br>2<br>2<br>2<br>2<br>1<br>1<br>38<br>10<br>22<br>14<br>154<br>155<br>0<br>0<br>0<br>1<br>1<br>138<br>10<br>22<br>1<br>1<br>138<br>10<br>22<br>1<br>1<br>138<br>10<br>22<br>1<br>1<br>138<br>10<br>22<br>1<br>1<br>138<br>10<br>22<br>1<br>1<br>138<br>10<br>22<br>1<br>1<br>138<br>10<br>22<br>1<br>1<br>138<br>10<br>22<br>1<br>1<br>138<br>10<br>22<br>1<br>1<br>138<br>10<br>22<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | Str4.2      | Total<br>72<br>114<br>169<br>591<br>7289<br>2893<br>1375<br>405<br>287<br>1221<br>1311<br>1158<br>918<br>894<br>4638<br>3846<br>2390<br>1436<br>2390<br>1436<br>2491<br>279<br>48<br>2255<br>704<br>933<br>867<br>621 | Cl<br>35<br>44<br>74<br>95<br>172<br>67<br>46<br>61<br>88<br>52<br>101<br>155<br>110<br>53<br>84<br>112<br>69<br>93<br>73<br>60<br>94<br>109<br>78  |
| Biomass<br>Year<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19 | 982<br>983<br>984<br>985<br>986<br>987<br>988<br>990<br>991<br>992<br>993<br>994<br>995<br>996<br>997<br>998<br>999<br>000<br>001<br>002<br>000<br>001<br>002<br>003<br>004<br>005<br>006<br>007<br>008 | Str1.1<br>37<br>60<br>83<br>388<br>263<br>218<br>90<br>113<br>226<br>175<br>83<br>225<br>4<br>65<br>20<br>57<br>34<br>53<br>34   | Str1.2<br>22<br>18<br>97<br>4322<br>6805<br>2601<br>1147<br>236<br>98<br>637<br>511<br>623<br>229  | Str2.1<br>10<br>1<br>3<br>5<br>0<br>0<br>23<br>63<br>71<br>55<br>20<br>54<br>155<br>20<br>54<br>155<br>20<br>54<br>174<br>142<br>8<br>12<br>10<br>10<br>4<br>9<br>3<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | Str2.2<br>1<br>6<br>5<br>5<br>5<br>5<br>5<br>5<br>8<br>8<br>0<br>2<br>5<br>5<br>2<br>5<br>2<br>5<br>2<br>5<br>2<br>5<br>2<br>5<br>7<br>3<br>3<br>7<br>5<br>8<br>8<br>7<br>3<br>7<br>3<br>4<br>6<br>6<br>5<br>5<br>7<br>8<br>8<br>7<br>5<br>5<br>5<br>7<br>8<br>7<br>7<br>5<br>7<br>5<br>5<br>5<br>5<br>5  | Str3.1<br>0<br>0<br>5<br>2<br>2<br>2<br>2<br>2<br>2<br>1<br>1<br>7<br>1<br>5<br>5<br>1<br>7<br>1<br>5<br>5<br>5<br>1<br>1<br>4<br>4<br>0<br>0<br>2<br>0<br>0<br>1  | Str3.2<br>2<br>1<br>4<br>8<br>5<br>2<br>286<br>87<br>63<br>344<br>361<br>592<br>453<br>288<br>326<br>99<br>34<br>43<br>99<br>23<br>24<br>199<br>23  | Str4.1<br>0<br>1<br>0<br>2<br>1<br>1<br>0<br>0<br>1<br>1<br>1<br>0<br>2<br>2<br>1<br>1<br>388<br>10<br>22<br>14<br>154<br>155<br>0<br>0<br>0<br>1<br>1<br>154<br>15<br>0<br>0<br>0<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1   | Str4.2      | Total<br>72<br>114<br>169<br>591<br>7289<br>2893<br>1375<br>405<br>287<br>1221<br>1311<br>111<br>1311<br>1311<br>1311<br>1311<br>1311   | Cl<br>35<br>44<br>74<br>95<br>172<br>132<br>67<br>46<br>49<br>54<br>67<br>46<br>49<br>54<br>101<br>155<br>110<br>53<br>84<br>88<br>52<br>101<br>155<br>110<br>53<br>84<br>93<br>73<br>60<br>94<br>109<br>53<br>78 |
| Biomass<br>Year<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19 | 982<br>983<br>984<br>985<br>986<br>987<br>998<br>990<br>991<br>992<br>993<br>994<br>995<br>996<br>997<br>998<br>999<br>000<br>001<br>002<br>001<br>002<br>000<br>001<br>002<br>000<br>000               | Str1.1<br>37<br>60<br>83<br>388<br>263<br>218<br>90<br>113<br>226<br>1755<br>83<br>325<br>4<br>65<br>20<br>57<br>34  | Str1.2<br>22<br>18<br>97<br>432<br>6805<br>2601<br>1147<br>236<br>98<br>637<br>511<br>623<br>229   | Str2.1<br>10<br>1<br>3<br>5<br>0<br>0<br>23<br>63<br>71<br>55<br>20<br>54<br>15<br>520<br>54<br>174<br>14<br>28<br>12<br>10<br>100<br>49<br>30<br>0<br>55<br>20<br>54<br>55<br>20<br>54<br>55<br>20<br>54<br>55<br>20<br>54<br>55<br>20<br>54<br>55<br>20<br>55<br>20<br>55<br>20<br>55<br>20<br>55<br>20<br>55<br>20<br>55<br>20<br>55<br>20<br>55<br>20<br>55<br>20<br>55<br>20<br>55<br>20<br>55<br>20<br>55<br>20<br>55<br>20<br>55<br>20<br>55<br>20<br>55<br>20<br>55<br>20<br>55<br>20<br>55<br>20<br>55<br>20<br>55<br>20<br>55<br>20<br>55<br>20<br>55<br>20<br>55<br>20<br>55<br>20<br>55<br>20<br>55<br>20<br>55<br>20<br>55<br>20<br>55<br>20<br>174<br>174<br>20<br>55<br>20<br>55<br>20<br>55<br>20<br>55<br>20<br>174<br>20<br>20<br>55<br>20<br>174<br>20<br>20<br>55<br>20<br>0<br>55<br>20<br>0<br>55<br>20<br>0<br>55<br>20<br>0<br>174<br>20<br>20<br>55<br>20<br>0<br>174<br>20<br>20<br>55<br>20<br>0<br>174<br>20<br>20<br>55<br>20<br>0<br>174<br>20<br>20<br>55<br>20<br>0<br>100<br>100<br>20<br>55<br>20<br>0<br>100<br>100<br>20<br>55<br>20<br>0<br>55<br>20<br>0<br>55<br>20<br>0<br>55<br>20<br>0<br>55<br>20<br>0<br>55<br>20<br>0<br>55<br>20<br>0<br>55<br>20<br>0<br>55<br>20<br>0<br>55<br>20<br>0<br>55<br>20<br>0<br>55<br>20<br>55<br>20<br>20<br>55<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20 | Str2.2<br>1<br>6<br>5<br>5<br>5<br>5<br>5<br>8<br>0<br>2<br>5<br>2<br>2<br>5<br>2<br>2<br>5<br>2<br>2<br>5<br>2<br>2<br>5<br>2<br>2<br>5<br>2<br>3<br>3<br>7<br>3<br>3<br>7<br>5<br>8<br>8  | Str3.1<br>0<br>0<br>2<br>2<br>2<br>1<br>1<br>0<br>0<br>311<br>71<br>7<br>300<br>6<br>94<br>167<br>235<br>17<br>15<br>5<br>1<br>1<br>4<br>0<br>2<br>15<br>1<br>1<br>4<br>0<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1   | Str3.2<br>2<br>1<br>4<br>8<br>5<br>2<br>286<br>87<br>63<br>344<br>361<br>592<br>453<br>288<br>326<br>99<br>34<br>43<br>99<br>23<br>24<br>19<br>23<br>24<br>5<br>24                                      | Str4.1<br>0<br>1<br>0<br>2<br>1<br>0<br>0<br>1<br>1<br>0<br>2<br>2<br>1<br>1<br>388<br>10<br>22<br>14<br>154<br>155<br>0<br>0<br>1<br>1<br>1<br>0<br>9<br>1<br>1<br>0<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1  | Str4.2      | Total<br>72<br>114<br>169<br>591<br>7289<br>2893<br>1375<br>405<br>287<br>1221<br>1311<br>1158<br>918<br>894<br>4638<br>3846<br>2390<br>1436<br>2491<br>279<br>48<br>255<br>704<br>93<br>867<br>621<br>72<br>90       | Cl<br>35<br>44<br>74<br>95<br>172<br>132<br>67<br>46<br>49<br>54<br>67<br>46<br>49<br>54<br>61<br>155<br>110<br>53<br>84<br>88<br>52<br>101<br>155<br>110<br>53<br>84<br>73<br>60<br>94<br>78<br>99               |

| Length | 1998  | 1999  | 2000  | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 |
|--------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|
| 0.5    | 0     | 0     | 0     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 1.5    | 0     | 0     | 0     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 2.5    | 0     | 0     | 0     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 3.5    | 0     | 0     | 0     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 4.5    | 0     | 0     | 0     | 6    | 0    | 0    | 0    | 0    | 4    | 0    | 0    | 0    | 0    |
| 5.5    | 182   | 1235  | 186   | 146  | 65   | 243  | 329  | 28   | 251  | 13   | 106  | 2629 | 178  |
| 6.5    | 44724 | 3401  | 639   | 1202 | 699  | 1344 | 4039 | 178  | 1590 | 463  | 473  | 1800 | 1047 |
| 7.5    | 1E+05 | 232   | 411   | 1564 | 791  | 1115 | 7585 | 683  | 996  | 1801 | 479  | 131  | 356  |
| 8.5    | 4670  | 126   | 87    | 58   | 97   | 60   | 1041 | 161  | 89   | 455  | 449  | 11   | 48   |
| 9.5    | 3927  | 3177  | 1114  | 123  | 117  | 120  | 98   | 18   | 1288 | 114  | 211  | 173  | 201  |
| 10.5   | 10533 | 27661 | 1800  | 502  | 308  | 1007 | 403  | 168  | 4769 | 258  | 328  | 272  | 293  |
| 11.5   | 4294  | 23335 | 566   | 582  | 162  | 2030 | 1023 | 692  | 6865 | 828  | 367  | 569  | 309  |
| 12.5   | 2104  | 3134  | 4074  | 356  | 82   | 1614 | 612  | 604  | 3432 | 508  | 125  | 838  | 346  |
| 13.5   | 6322  | 4979  | 13437 | 729  | 105  | 628  | 476  | 215  | 1042 | 679  | 215  | 459  | 627  |
| 14.5   | 10205 | 4558  | 14810 | 824  | 214  | 802  | 2450 | 390  | 4212 | 2989 | 296  | 349  | 1249 |
| 15.5   | 5645  | 1482  | 9324  | 955  | 188  | 780  | 5131 | 451  | 4931 | 5847 | 226  | 251  | 2039 |
| 16.5   | 5203  | 1764  | 9607  | 1864 | 124  | 593  | 3040 | 332  | 2640 | 2504 | 275  | 354  | 2210 |
| 17.5   | 4585  | 2139  | 0     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 75   |
| 18.5   | 0     | 0     | 0     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 19.5   | 0     | 0     | 0     | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |      |      |
| 20.5   | 0     | 0     | 0     | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |      |      |

Table 8 Sebastes spp. < 17 cm. Length composition by year (1 000), 1998-2008.

Table 9 *Hippoglossoides platessoides*, abundance ('1000) and biomass indices (tons) for West Greenland by stratum and total, 1982-2010. Confidence intervals (CI) are given in per cent of the stratified mean at 95% level of significance for West Greenland.

| Abund | ance   |  |   |   |   |  |  |  |  |   |   |   |
|-------|--|--|---|---|---|--|--|--|--|---|---|---|
| Year  |  | Str1.1   | Str1.2  | Str2.1  | Str2.2  | Str3.1   | Str3.2   | Str4.1   | Str4.2   | Total   | CI  |   |
|       | 1982   | 31898  | 5512  | 30554   | 5749  | 2566   | 2500   | 987  |  | 79766   | 31  |   |
|       | 1983   | 37896  | 6029  | 46212   | 2501  | 7507   | 458  | 1605   |  | 102208  | 44  |   |
|       | 1984   | 19482  | 5978  | 56619   | 4618  | 3584   | 2265   | 1386   |  | 93932   | 52  |   |
|       | 1985   | 19232  | 5254  | 22506   | 7120  | 2578   | 237  | 2851   |  | 59778   | 28  |   |
|       | 1986   | 20047  | 12356   | 53114   | 9294  | 2671   | 2261   | 4072   |  | 103815  | 47  |   |
|       | 1987   | 24735  | 3011  | 26775   | 0201  | 2401   | 2201   | 992  | . 490  | 58404   | 30  |   |
|       | 1000   | 10577  | 2/02  | 9510  |   | 27/1   | . 072  | 1070   | 400  | 22000   | 21  |   |
|       | 1000   | 9605   | 4912  | 12772   | 2097  | 9767   | 075  | 1073   | •  | 40212   | 24  |   |
|       | 1909   | 0090   | 4013  | 12113   | 2240  | 4070   | •  | 1270   |  | 40313   | 24  |   |
|       | 1990   | 9022   | 0200  | 6930  | 0470  | 1270   |  | 1///   | 0/3  | 05077   | 30  |   |
|       | 1991   | 8654   | 5006  | 5250  | 2172  | 1665   | 807  | 14/5   | 848  | 25877   | 21  |   |
|       | 1992   | 8567   | 5876  | 3670  | 3463  | 1634   | 2273   | 1746   | 172  | 27401   | 24  |   |
|       | 1993   | 6942   | 3999  | 1598  | 1/34  | 760  | 927  | 438  |  | 16398   | 20  |   |
|       | 1994   | 2070   | 3575  | 1450  | 1449  | 614  | 274  | 1638   | 206  | 11276   | 28  |   |
|       | 1995   |  |   |   |   | 905  | 1162   | 1053   | 1308   | 4428  | 44  |   |
|       | 1996   | 4020   | 1489  | 1052  | 1539  | 2067   | 897  | 1681   | 555  | 13300   | 21  |   |
|       | 1997   | 8543   | 3297  | 2606  | 3494  | 3017   | 1399   | 2536   | 114  | 25006   | 24  |   |
|       | 1998   | 6552   | 4211  | 6247  | 3033  | 1858   | 1197   | 2420   | 212  | 25730   | 27  |   |
|       | 1999   | 5690   | 2516  | 5384  | 3139  | 1919   | 441  | 1467   |  | 20556   | 25  |   |
|       | 2000   | 2471   | 4321  | 2146  | 3848  | 1135   | 396  | 1364   | 43   | 15724   | 28  |   |
|       | 2001   |  |   | 12447   | 4278  | 1228   | 421  | 4021   | 425  | 22820   | 41  |   |
|       | 2002   | -  | -   | 7682  |   | 1237   | 2383   | 1764   |  | 13066   | 47  |   |
|       | 2003   |  |   | 21608   | 12743   | 1202   | 2262   | 2249   | . 19   | 40083   | 46  |   |
|       | 2000   | 20652  | . 0204  | 1086/   | 7082  | 10/18  | 530  | 1881   | 71   | 60/31   | 20  |   |
|       | 2004   | 20052  | 3234  | 19004   | 0227  | 1561   | 12/2   | 1001   | 971  | 222/7   | 12  |   |
|       | 2005   | 5000   | E 46E   | 10640   | 9327  | 1001   | 1243   | 1004   | 0/ I<br>52   | 32247   | 43  |   |
|       | 2000   | 0290   | 5405  | 10049   | 0304  | 1220   | 1207   | 1297   | 55   | 20/0/   | 34  |   |
|       | 2007   | 9962   | 5753  | 4009  | 3125  | 681  | 448  | 223  | 43   | 20971   | 32  |   |
|       | 2008   | 5520   | •   | 3181  | 4//3  | 367  | 868  | 493  | 37   | 15239   | 45  |   |
|       | 2009   |  |   | 2851  | 3227  | 819  | 640  | 849  | 57   | 8443  | 38  |   |
|       | 2010   | 23751  | 6103  | 5236  | 8075  | 638  | 517  | 856  | 0  | 45176   | 34  |   |
|       |  |  |   |   |   |  |  |  |  |   |   |   |
| Bioma | 22   |  |   |   |   |  |  |  |  |   |   |   |
|       | 00   |  |   |   |   |  |  |  |  |   |   |   |
| Year  |  | Str1.1   | Str1.2  | Str2.1  | Str2.2  | Str3.1   | Str3.2   | Str4.1   | Str4.2   | Total   | CI  | GLM Biomass   |
| Year  | 1982   | Str1.1<br>6203   | Str1.2<br>1008  | Str2.1<br>7776  | Str2.2<br>1163  | Str3.1<br>811  | Str3.2<br>451  | Str4.1<br>147  | Str4.2   | Total<br>17559  | CI<br>34  | GLM Biomass<br>8617   |
| Year  | 1982<br>1983   | Str1.1<br>6203<br>6070   | Str1.2<br>1008<br>1089  | Str2.1<br>7776<br>9924  | Str2.2<br>1163<br>526   | Str3.1<br>811<br>3218  | Str3.2<br>451<br>89  | Str4.1<br>147<br>279   | Str4.2   | Total<br>17559<br>21195   | Cl<br>34<br>41  | GLM Biomass<br>8617<br>9647   |
| Year  | 1982<br>1983<br>1984   | Str1.1<br>6203<br>6070<br>1776   | Str1.2<br>1008<br>1089<br>732   | Str2.1<br>7776<br>9924<br>9028  | Str2.2<br>1163<br>526<br>851  | Str3.1<br>811<br>3218<br>715   | Str3.2<br>451<br>89<br>394   | Str4.1<br>147<br>279<br>257  | Str4.2   | Total<br>17559<br>21195<br>13753  | CI<br>34<br>41<br>58  | GLM Biomass<br>8617<br>9647<br>10784  |
| Year  | 1982<br>1983<br>1984<br>1985   | Str1.1<br>6203<br>6070<br>1776<br>1757   | Str1.2<br>1008<br>1089<br>732<br>531  | Str2.1<br>7776<br>9924<br>9028<br>3777  | Str2.2<br>1163<br>526<br>851<br>1205  | Str3.1<br>811<br>3218<br>715<br>504  | Str3.2<br>451<br>89<br>394<br>48   | Str4.1<br>147<br>279<br>257<br>299   | Str4.2   | Total<br>17559<br>21195<br>13753<br>8121  | CI<br>34<br>41<br>58<br>33  | GLM Biomass<br>8617<br>9647<br>10784<br>7341  |
| Year  | 1982<br>1983<br>1984<br>1985<br>1986   | Str1.1<br>6203<br>6070<br>1776<br>1757<br>1974   | Str1.2<br>1008<br>1089<br>732<br>531<br>1218  | Str2.1<br>7776<br>9924<br>9028<br>3777<br>7653  | Str2.2<br>1163<br>526<br>851<br>1205<br>1352  | Str3.1<br>811<br>3218<br>715<br>504<br>649   | Str3.2<br>451<br>89<br>394<br>48<br>428  | Str4.1<br>147<br>279<br>257<br>299<br>410  | Str4.2   | Total<br>17559<br>21195<br>13753<br>8121<br>13684   | CI<br>34<br>41<br>58<br>33<br>47  | GLM Biomass<br>8617<br>9647<br>10784<br>7341<br>11068   |
| Year  | 1982<br>1983<br>1984<br>1985<br>1986<br>1987   | Str1.1<br>6203<br>6070<br>1776<br>1757<br>1974<br>3338   | Str1.2<br>1008<br>1089<br>732<br>531<br>1218<br>311   | Str2.1<br>7776<br>9924<br>9028<br>3777<br>7653<br>5663  | Str2.2<br>1163<br>526<br>851<br>1205<br>1352  | Str3.1<br>811<br>3218<br>715<br>504<br>649<br>639  | Str3.2<br>451<br>89<br>394<br>48<br>428  | Str4.1<br>147<br>279<br>257<br>299<br>410<br>214   | Str4.2   | Total<br>17559<br>21195<br>13753<br>8121<br>13684<br>10285  | CI<br>34<br>41<br>58<br>33<br>47<br>37  | GLM Biomass<br>8617<br>9647<br>10784<br>7341<br>11068<br>7774   |
| Year  | 1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988   | Str1.1<br>6203<br>6070<br>1776<br>1757<br>1974<br>3338<br>887  | Str1.2<br>1008<br>1089<br>732<br>531<br>1218<br>311<br>300  | Str2.1<br>7776<br>9924<br>9028<br>3777<br>7653<br>5663<br>1750  | Str2.2<br>1163<br>526<br>851<br>1205<br>1352<br>791   | Str3.1<br>811<br>3218<br>715<br>504<br>649<br>639<br>852   | Str3.2<br>451<br>89<br>394<br>48<br>428  | Str4.1<br>147<br>279<br>257<br>299<br>410<br>214<br>235  | Str4.2   | Total<br>17559<br>21195<br>13753<br>8121<br>13684<br>10285<br>4962  | CI<br>34<br>41<br>58<br>33<br>47<br>37<br>31  | GLM Biomass<br>8617<br>9647<br>10784<br>7341<br>11068<br>7774<br>4597   |
| Year  | 1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1988   | Str1.1<br>6203<br>6070<br>1776<br>1757<br>1974<br>3338<br>887<br>515   | Str1.2<br>1008<br>1089<br>732<br>531<br>1218<br>311<br>300<br>321   | Str2.1<br>7776<br>9924<br>9028<br>3777<br>7653<br>5663<br>1750<br>1675  | Str2.2<br>1163<br>526<br>851<br>1205<br>1352  | Str3.1<br>811<br>3218<br>715<br>504<br>649<br>639<br>852<br>2101   | Str3.2<br>451<br>89<br>394<br>48<br>428<br>147   | Str4.1<br>147<br>279<br>257<br>299<br>410<br>214<br>235<br>256   | Str4.2   | Total<br>17559<br>21195<br>13753<br>8121<br>13684<br>10285<br>4962<br>5259  | CI<br>34<br>41<br>58<br>33<br>47<br>37<br>31<br>35  | GLM Biomass<br>8617<br>9647<br>10784<br>7341<br>11068<br>7774<br>4597<br>4024   |
| Year  | 1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989<br>1990   | Str1.1<br>6203<br>6070<br>1776<br>1757<br>1974<br>3338<br>887<br>515<br>473  | Str1.2<br>1008<br>1089<br>732<br>531<br>1218<br>311<br>300<br>321<br>524  | Str2.1<br>7776<br>9924<br>9028<br>3777<br>7653<br>5663<br>1750<br>1675<br>1321  | Str2.2<br>1163<br>526<br>851<br>1205<br>1352  | Str3.1<br>811<br>3218<br>715<br>504<br>649<br>639<br>852<br>2101<br>247  | Str3.2<br>451<br>89<br>394<br>48<br>428<br>147   | Str4.1<br>147<br>279<br>257<br>299<br>410<br>214<br>235<br>256<br>372  | Str4.2   | Total<br>17559<br>21195<br>13753<br>8121<br>13684<br>10285<br>4962<br>5259<br>3584  | CI<br>34<br>41<br>58<br>33<br>47<br>37<br>31<br>35<br>42  | GLM Biomass<br>8617<br>9647<br>10784<br>7341<br>11068<br>7774<br>4597<br>4024<br>4247   |
| Year  | 1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989<br>1990<br>1991   | Str1.1<br>6203<br>6070<br>1776<br>1757<br>1974<br>3338<br>887<br>515<br>473<br>375   | Str1.2<br>1008<br>1089<br>732<br>531<br>1218<br>311<br>300<br>321<br>524<br>437   | Str2.1<br>7776<br>9924<br>9028<br>3777<br>7653<br>5663<br>1750<br>1675<br>1321<br>504   | Str2.2<br>1163<br>526<br>851<br>1205<br>1352  | Str3.1<br>811<br>3218<br>715<br>504<br>649<br>639<br>852<br>2101<br>247<br>303   | Str3.2<br>451<br>89<br>394<br>48<br>428<br>147   | Str4.1<br>147<br>279<br>257<br>299<br>410<br>214<br>235<br>256<br>372<br>222   | Str4.2   | Total<br>17559<br>21195<br>13753<br>8121<br>13684<br>10285<br>4962<br>5259<br>3584<br>2454  | CI<br>34<br>41<br>58<br>33<br>47<br>37<br>31<br>35<br>42<br>26  | GLM Biomass<br>8617<br>9647<br>10784<br>7341<br>11068<br>7774<br>4597<br>4024<br>4247<br>4136   |
| Year  | 1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989<br>1990<br>1991   | Str1.1<br>6203<br>6070<br>1776<br>1757<br>1974<br>3338<br>887<br>515<br>473<br>375<br>616  | Str1.2<br>1008<br>1089<br>732<br>531<br>1218<br>311<br>300<br>321<br>524<br>437<br>465  | Str2.1<br>7776<br>9924<br>9028<br>3777<br>7653<br>5663<br>1750<br>1675<br>1321<br>504<br>272  | Str2.2<br>1163<br>526<br>851<br>1205<br>1352<br>791<br>391<br>400<br>303<br>262   | Str3.1<br>811<br>3218<br>715<br>504<br>649<br>639<br>852<br>2101<br>247<br>303<br>211  | Str3.2<br>451<br>89<br>394<br>48<br>428<br>147   | Str4.1<br>147<br>279<br>257<br>299<br>410<br>214<br>235<br>256<br>372<br>222<br>252  | Str4.2   | Total<br>17559<br>21195<br>13753<br>8121<br>13684<br>10285<br>4962<br>5259<br>3584<br>2454<br>2340  | CI<br>34<br>41<br>58<br>33<br>47<br>37<br>31<br>35<br>42<br>26<br>27  | GLM Biomass<br>8617<br>9647<br>10784<br>7341<br>11068<br>7774<br>4597<br>4024<br>4247<br>4136<br>3002   |
| Year  | 1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989<br>1990<br>1991<br>1992   | Str1.1<br>6203<br>6070<br>1776<br>1757<br>1974<br>3338<br>887<br>515<br>473<br>375<br>616  | Str1.2<br>1008<br>1089<br>732<br>531<br>1218<br>311<br>300<br>321<br>524<br>437<br>465<br>270   | Str2.1<br>7776<br>9924<br>9028<br>3777<br>7653<br>5663<br>1750<br>1675<br>1321<br>504<br>273  | Str2.2<br>1163<br>526<br>851<br>1205<br>1352  | Str3.1<br>811<br>3218<br>715<br>504<br>649<br>639<br>852<br>2101<br>247<br>303<br>211  | Str3.2<br>451<br>89<br>394<br>48<br>428<br>147   | Str4.1<br>147<br>279<br>257<br>299<br>410<br>214<br>235<br>256<br>372<br>222<br>158  | Str4.2   | Total<br>17559<br>21195<br>13753<br>8121<br>13684<br>10285<br>4962<br>5259<br>3584<br>2454<br>2340  | CI<br>34<br>41<br>58<br>33<br>47<br>31<br>35<br>42<br>26<br>27<br>22  | GLM Biomass<br>8617<br>9647<br>10784<br>7341<br>11068<br>7774<br>4597<br>4024<br>4247<br>4136<br>3092<br>2552   |
| Year  | 1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989<br>1990<br>1991<br>1992<br>1993<br>1994   | Str1.1<br>6203<br>6070<br>1776<br>1757<br>1974<br>3338<br>887<br>515<br>473<br>375<br>616<br>385<br>410                                    | Str1.2<br>1008<br>1089<br>732<br>531<br>1218<br>311<br>300<br>321<br>524<br>437<br>465<br>270<br>420                                    | Str2.1<br>7776<br>9924<br>9028<br>3777<br>7653<br>5663<br>1750<br>1675<br>1321<br>504<br>273<br>106   | Str2.2<br>1163<br>526<br>851<br>1205<br>1352  | Str3.1<br>811<br>3218<br>715<br>504<br>649<br>639<br>852<br>2101<br>247<br>303<br>211<br>83  | Str3.2<br>451<br>89<br>394<br>48<br>428<br>147   | Str4.1<br>147<br>279<br>257<br>299<br>410<br>214<br>235<br>256<br>372<br>222<br>158<br>272   | Str4.2   | Total<br>17559<br>21195<br>13753<br>8121<br>13684<br>10285<br>4962<br>5259<br>3584<br>2454<br>2340<br>1110  | CI<br>34<br>41<br>58<br>33<br>47<br>37<br>31<br>35<br>42<br>26<br>27<br>22  | GLM Biomass<br>8617<br>9647<br>10784<br>7341<br>11068<br>7774<br>4597<br>4024<br>4247<br>4136<br>3092<br>2558<br>1269   |
| Year  | 1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989<br>1990<br>1991<br>1992<br>1993<br>1994   | Str1.1<br>6203<br>6070<br>1776<br>1757<br>1974<br>3338<br>887<br>515<br>473<br>375<br>616<br>385<br>140                                    | Str1.2<br>1008<br>1089<br>732<br>531<br>1218<br>311<br>300<br>321<br>524<br>437<br>465<br>270<br>430                                    | Str2.1<br>7776<br>9924<br>9028<br>3777<br>7653<br>5663<br>1750<br>1675<br>1321<br>504<br>273<br>106<br>130  | Str2.2<br>1163<br>526<br>851<br>1205<br>1352  | Str3.1<br>811<br>3218<br>715<br>504<br>649<br>639<br>852<br>2101<br>247<br>303<br>211<br>83<br>64  | Str3.2<br>451<br>89<br>394<br>48<br>428<br>147<br>158<br>330<br>95<br>333  | Str4.1<br>147<br>279<br>257<br>299<br>410<br>214<br>235<br>256<br>372<br>222<br>158<br>27<br>110   | Str4.2   | Total<br>17559<br>21195<br>13753<br>8121<br>13684<br>10285<br>4962<br>5259<br>3584<br>2454<br>2340<br>1110<br>1077  | CI<br>34<br>41<br>58<br>33<br>47<br>37<br>31<br>35<br>42<br>26<br>27<br>22<br>41  | GLM Biomass<br>8617<br>9647<br>10784<br>7341<br>11068<br>7774<br>4597<br>4024<br>4247<br>4136<br>3092<br>2558<br>1268<br>1268   |
| Year  | 1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989<br>1990<br>1991<br>1992<br>1993<br>1994<br>1994   | Str1.1<br>6203<br>6070<br>1776<br>1757<br>1974<br>3338<br>887<br>515<br>473<br>375<br>616<br>385<br>140                                    | Str1.2<br>1008<br>1089<br>732<br>531<br>1218<br>311<br>300<br>321<br>524<br>437<br>465<br>270<br>430                                    | Str2.1<br>7776<br>9924<br>9028<br>3777<br>7653<br>5663<br>1750<br>1675<br>1321<br>504<br>273<br>106<br>130  | Str2.2<br>1163<br>526<br>851<br>1205<br>1352  | Str3.1<br>811<br>3218<br>715<br>504<br>649<br>639<br>852<br>2101<br>247<br>303<br>211<br>83<br>64<br>72  | Str3.2<br>451<br>89<br>394<br>48<br>428<br>147<br>158<br>330<br>95<br>333<br>149   | Str4.1<br>147<br>279<br>257<br>299<br>410<br>214<br>235<br>256<br>372<br>222<br>158<br>27<br>110<br>127  | Str4.2   | Total<br>17559<br>21195<br>13753<br>8121<br>13684<br>10285<br>4962<br>5259<br>3584<br>2454<br>2340<br>1110<br>1077<br>444   | CI<br>34<br>41<br>58<br>33<br>47<br>37<br>31<br>35<br>42<br>26<br>27<br>22<br>41<br>52  | GLM Biomass<br>8617<br>9647<br>10784<br>7341<br>11068<br>7774<br>4597<br>4024<br>4247<br>4136<br>3092<br>2558<br>1268<br>4779   |
| Year  | 1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989<br>1990<br>1991<br>1992<br>1993<br>1994<br>1995   | Str1.1<br>6203<br>6070<br>1776<br>1757<br>1974<br>3338<br>887<br>515<br>473<br>375<br>616<br>385<br>140                                    | Str1.2<br>1008<br>1089<br>732<br>531<br>1218<br>311<br>300<br>321<br>524<br>437<br>465<br>270<br>430                                    | Str2.1<br>7776<br>9924<br>9028<br>3777<br>7653<br>5663<br>1750<br>1675<br>1321<br>504<br>273<br>106<br>130  | Str2.2<br>1163<br>526<br>851<br>1205<br>1352  | Str3.1<br>811<br>3218<br>715<br>504<br>649<br>852<br>2101<br>247<br>303<br>211<br>83<br>64<br>72<br>167  | Str3.2<br>451<br>89<br>394<br>48<br>428<br>147   | Str4.1<br>147<br>279<br>257<br>299<br>410<br>214<br>235<br>256<br>372<br>222<br>158<br>27<br>110<br>127<br>110   | Str4.2   | Total<br>17559<br>21195<br>13753<br>8121<br>13684<br>10285<br>4962<br>5259<br>3584<br>2454<br>2340<br>1110<br>1077<br>444<br>1059   | CI<br>34<br>41<br>58<br>33<br>47<br>37<br>31<br>35<br>42<br>26<br>27<br>22<br>41<br>52<br>27  | GLM Biomass<br>8617<br>9647<br>10784<br>7341<br>11068<br>7774<br>4597<br>4024<br>4247<br>4136<br>3092<br>2558<br>1268<br>4779<br>3155   |
| Year  | 1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989<br>1990<br>1991<br>1992<br>1993<br>1994<br>1995<br>1996<br>1997   | Str1.1<br>6203<br>6070<br>1776<br>1757<br>1974<br>3338<br>887<br>515<br>473<br>375<br>616<br>385<br>140<br>231<br>484                      | Str1.2<br>1008<br>1089<br>732<br>531<br>1218<br>311<br>300<br>321<br>524<br>437<br>465<br>270<br>430                                    | Str2.1<br>7776<br>9924<br>9028<br>3777<br>7653<br>5663<br>1750<br>1675<br>1321<br>504<br>273<br>106<br>130  | Str2.2<br>1163<br>526<br>851<br>1205<br>1352  | Str3.1<br>811<br>3218<br>715<br>504<br>649<br>6352<br>2101<br>247<br>303<br>211<br>83<br>64<br>72<br>167<br>359  | Str3.2<br>451<br>89<br>394<br>48<br>428<br>147<br>147<br>158<br>330<br>95<br>333<br>149<br>91<br>183   | Str4.1<br>147<br>279<br>257<br>299<br>410<br>214<br>235<br>256<br>372<br>222<br>158<br>27<br>110<br>127<br>162<br>197  | Str4.2   | Total<br>17559<br>21195<br>13753<br>8121<br>13684<br>10285<br>4962<br>5259<br>3584<br>2454<br>2350<br>1110<br>1077<br>444<br>1059<br>2046   | CI<br>34<br>41<br>58<br>33<br>47<br>37<br>31<br>35<br>42<br>26<br>27<br>22<br>41<br>52<br>27<br>30  | GLM Biomass<br>8617<br>9647<br>10784<br>7341<br>11068<br>7774<br>4597<br>4024<br>4247<br>4136<br>3092<br>2558<br>1268<br>4779<br>3155<br>3303   |
| Year  | 1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989<br>1990<br>1991<br>1992<br>1993<br>1994<br>1995<br>1996<br>1997<br>1998   | Str1.1<br>6203<br>6070<br>1776<br>1757<br>1974<br>3338<br>887<br>515<br>473<br>375<br>616<br>385<br>140<br>231<br>484<br>319               | Str1.2<br>1008<br>1089<br>732<br>531<br>1218<br>311<br>300<br>321<br>524<br>437<br>465<br>270<br>430                                    | Str2.1<br>7776<br>9924<br>9028<br>3777<br>7653<br>5663<br>1750<br>1675<br>1321<br>504<br>273<br>106<br>130  | Str2.2<br>1163<br>526<br>851<br>1205<br>1352  | Str3.1<br>811<br>3218<br>715<br>504<br>649<br>639<br>852<br>2101<br>247<br>303<br>211<br>83<br>64<br>72<br>167<br>359<br>195   | Str3.2<br>451<br>89<br>394<br>48<br>428  | Str4.1<br>147<br>279<br>257<br>299<br>410<br>214<br>235<br>256<br>372<br>222<br>158<br>27<br>110<br>127<br>162<br>197  | Str4.2   | Total<br>17559<br>21195<br>13753<br>8121<br>13684<br>10285<br>4962<br>5259<br>3584<br>2454<br>2340<br>1110<br>1077<br>444<br>1059<br>2046<br>1813   | CI<br>34<br>41<br>58<br>33<br>47<br>37<br>31<br>35<br>42<br>26<br>27<br>22<br>41<br>52<br>27<br>30<br>26  | GLM Biomass<br>8617<br>9647<br>10784<br>7341<br>11068<br>7774<br>4024<br>4297<br>4024<br>4247<br>4136<br>3092<br>2558<br>1268<br>1268<br>4779<br>3155<br>3303<br>2778   |
| Year  | 1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989<br>1990<br>1991<br>1992<br>1993<br>1994<br>1995<br>1996<br>1997<br>1998<br>1999   | Str1.1<br>6203<br>6070<br>1776<br>1757<br>1974<br>3338<br>887<br>515<br>473<br>375<br>616<br>385<br>140                                    | Str1.2<br>1008<br>1089<br>732<br>531<br>1218<br>311<br>300<br>321<br>524<br>437<br>465<br>270<br>430<br>112<br>269<br>270<br>151        | Str2.1<br>7776<br>9924<br>9028<br>3777<br>7653<br>5663<br>1750<br>1675<br>1321<br>504<br>273<br>106<br>130  | Str2.2<br>1163<br>526<br>851<br>1205<br>1352<br>791<br>391<br>400<br>303<br>262<br>144<br>139<br>178<br>337<br>259<br>290   | Str3.1<br>811<br>3218<br>715<br>504<br>649<br>639<br>852<br>2101<br>247<br>303<br>211<br>83<br>64<br>722<br>167<br>359<br>195  | Str3.2<br>451<br>89<br>394<br>48<br>428<br>147<br>158<br>330<br>95<br>333<br>149<br>91<br>183<br>167<br>39   | Str4.1<br>147<br>279<br>257<br>299<br>410<br>214<br>235<br>256<br>372<br>222<br>158<br>27<br>110<br>127<br>110<br>127<br>162<br>197  | Str4.2   | Total<br>17559<br>21195<br>13753<br>8121<br>13684<br>10285<br>4962<br>5259<br>3584<br>2454<br>2340<br>1110<br>1077<br>444<br>1059<br>2046<br>1813<br>1374   | CI<br>34<br>41<br>58<br>33<br>47<br>37<br>31<br>35<br>42<br>26<br>27<br>22<br>41<br>52<br>27<br>30<br>26<br>25  | GLM Biomass<br>8617<br>9647<br>10784<br>7341<br>11068<br>7774<br>4597<br>4024<br>4247<br>4136<br>3092<br>2558<br>1268<br>4779<br>3155<br>3303<br>2778<br>2230   |
| Year  | 1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989<br>1990<br>1991<br>1992<br>1993<br>1994<br>1995<br>1996<br>1997<br>1998<br>1999<br>2000   | Str1.1<br>6203<br>6070<br>1776<br>1757<br>1974<br>3338<br>887<br>515<br>473<br>375<br>616<br>385<br>140                                    | Str1.2<br>1008<br>1089<br>732<br>531<br>1218<br>311<br>300<br>321<br>524<br>437<br>465<br>270<br>430<br>112<br>269<br>270<br>151<br>367 | Str2.1<br>7776<br>9924<br>9028<br>3777<br>7653<br>5663<br>1750<br>1675<br>1321<br>504<br>273<br>106<br>130  | Str2.2<br>1163<br>526<br>851<br>1205<br>1352<br>791<br>391<br>400<br>303<br>262<br>144<br>139<br>178<br>337<br>259<br>290<br>361  | Str3.1<br>811<br>3218<br>715<br>504<br>649<br>639<br>852<br>2101<br>247<br>303<br>211<br>83<br>64<br>72<br>167<br>359<br>195<br>190<br>116   | Str3.2<br>451<br>89<br>394<br>48<br>428<br>147<br>158<br>330<br>95<br>333<br>149<br>91<br>183<br>167<br>39<br>41   | Str4.1<br>147<br>279<br>257<br>299<br>410<br>214<br>235<br>372<br>222<br>158<br>27<br>110<br>127<br>162<br>197<br>197<br>95<br>61  | Str4.2   | Total<br>17559<br>21195<br>13753<br>8121<br>13684<br>10285<br>4962<br>5259<br>3584<br>2454<br>2340<br>1110<br>1077<br>444<br>1059<br>2046<br>1813<br>1374<br>1242   | CI<br>34<br>41<br>58<br>33<br>47<br>31<br>35<br>42<br>26<br>27<br>22<br>41<br>52<br>27<br>30<br>26<br>25<br>34  | GLM Biomass<br>8617<br>9647<br>10784<br>7341<br>11068<br>7774<br>4597<br>4024<br>4247<br>4136<br>3092<br>2558<br>1268<br>4779<br>3155<br>3303<br>2778<br>2230<br>2021   |
| Year  | 1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989<br>1990<br>1991<br>1992<br>1993<br>1994<br>1995<br>1996<br>1997<br>1998<br>1999<br>2000<br>2001   | Str1.1<br>6203<br>6070<br>1776<br>1757<br>1974<br>3338<br>887<br>515<br>473<br>375<br>616<br>385<br>140                                    | Str1.2<br>1008<br>1089<br>732<br>531<br>1218<br>311<br>300<br>321<br>524<br>437<br>465<br>270<br>430                                    | Str2.1<br>7776<br>9924<br>9028<br>3777<br>7653<br>5663<br>1750<br>1675<br>1321<br>504<br>273<br>106<br>130  | Str2.2<br>1163<br>526<br>851<br>1205<br>1352  | Str3.1<br>811<br>3218<br>715<br>504<br>649<br>639<br>852<br>2101<br>247<br>303<br>211<br>83<br>64<br>72<br>167<br>359<br>195<br>190<br>116<br>104  | Str3.2<br>451<br>899<br>394<br>48<br>428<br>147<br>158<br>330<br>95<br>333<br>149<br>91<br>183<br>167<br>39<br>41  | Str4.1<br>147<br>279<br>257<br>299<br>410<br>214<br>235<br>256<br>372<br>222<br>2158<br>27<br>110<br>127<br>162<br>197<br>197<br>95<br>61  | Str4.2   | Total<br>17559<br>21195<br>13753<br>8121<br>13684<br>10285<br>4962<br>5259<br>3584<br>2454<br>2454<br>2340<br>1110<br>1077<br>444<br>1059<br>2046<br>1813<br>1374<br>1242<br>1386   | CI<br>34<br>41<br>58<br>33<br>47<br>31<br>35<br>42<br>26<br>27<br>22<br>41<br>52<br>27<br>30<br>26<br>25<br>34<br>36  | GLM Biomass<br>8617<br>9647<br>10784<br>7341<br>11068<br>7774<br>4597<br>4024<br>4247<br>4136<br>3092<br>2558<br>1268<br>4779<br>3155<br>3303<br>2778<br>2230<br>2021<br>3659   |
| Year  | 1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989<br>1990<br>1991<br>1992<br>1993<br>1994<br>1995<br>1996<br>1997<br>1998<br>1999<br>2000<br>2001<br>2002   | Str1.1<br>6203<br>6070<br>1776<br>1757<br>1974<br>3338<br>887<br>515<br>473<br>375<br>616<br>385<br>140<br>231<br>484<br>319<br>254<br>135 | Str1.2<br>1008<br>1089<br>732<br>531<br>1218<br>311<br>300<br>321<br>524<br>437<br>465<br>270<br>430                                    | Str2.1<br>7776<br>9924<br>9028<br>3777<br>7653<br>5663<br>1750<br>1675<br>1321<br>504<br>273<br>106<br>130  | Str2.2<br>1163<br>526<br>851<br>1205<br>1352<br>791<br>391<br>400<br>303<br>262<br>144<br>139<br>178<br>337<br>259<br>290<br>361<br>332   | Str3.1<br>811<br>3218<br>715<br>504<br>649<br>639<br>852<br>2101<br>247<br>303<br>211<br>83<br>64<br>72<br>167<br>359<br>195<br>190<br>116<br>104<br>104   | Str3.2<br>451<br>89<br>394<br>48<br>428<br>147<br>158<br>330<br>95<br>333<br>149<br>91<br>183<br>167<br>39<br>41<br>48<br>224  | Str4.1<br>147<br>279<br>257<br>299<br>410<br>214<br>235<br>256<br>372<br>222<br>158<br>27<br>110<br>127<br>162<br>197<br>197<br>95<br>61<br>164  | Str4.2   | Total<br>17559<br>21195<br>13753<br>8121<br>13684<br>10285<br>4962<br>5259<br>3584<br>2454<br>2340<br>1110<br>1077<br>444<br>1059<br>2046<br>1813<br>1374<br>1242<br>1386<br>902  | Cl<br>34<br>41<br>58<br>33<br>47<br>37<br>31<br>35<br>42<br>26<br>27<br>22<br>41<br>52<br>27<br>30<br>26<br>25<br>34<br>36<br>49  | GLM Biomass<br>8617<br>9647<br>10784<br>7341<br>11068<br>7774<br>4597<br>4024<br>4247<br>4136<br>3092<br>2558<br>1268<br>4779<br>3155<br>3303<br>2778<br>2230<br>2021<br>3659<br>3725   |
| Year  | 1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989<br>1990<br>1991<br>1992<br>1993<br>1994<br>1995<br>1996<br>1997<br>1998<br>1999<br>2000<br>2001<br>2002<br>2001   | Str1.1<br>6203<br>6070<br>1776<br>1757<br>1974<br>3338<br>887<br>515<br>473<br>375<br>616<br>385<br>140                                    | Str1.2<br>1008<br>1089<br>732<br>531<br>1218<br>311<br>300<br>321<br>524<br>437<br>465<br>270<br>430                                    | Str2.1<br>7776<br>9924<br>9028<br>3777<br>7653<br>5663<br>1750<br>1675<br>1321<br>504<br>273<br>106<br>1320   | Str2.2<br>1163<br>526<br>851<br>1205<br>1352<br>791<br>391<br>400<br>303<br>262<br>144<br>139<br>178<br>337<br>259<br>290<br>361<br>332<br>1173   | Str3.1<br>811<br>3218<br>715<br>504<br>649<br>852<br>2101<br>247<br>303<br>211<br>83<br>64<br>722<br>167<br>359<br>195<br>190<br>116<br>104<br>125<br>2129   | Str3.2<br>451<br>89<br>394<br>48<br>428<br>147<br>147  | Str4.1<br>147<br>279<br>257<br>299<br>410<br>214<br>235<br>256<br>372<br>222<br>158<br>27<br>110<br>127<br>162<br>197<br>197<br>95<br>61<br>164<br>117<br>186  | Str4.2   | Total<br>17559<br>21195<br>13753<br>8121<br>13684<br>10285<br>4962<br>5259<br>3584<br>2454<br>2340<br>1110<br>1077<br>444<br>1059<br>2046<br>1813<br>1374<br>1242<br>1386<br>902<br>3301  | Cl<br>34<br>41<br>58<br>33<br>47<br>37<br>31<br>35<br>42<br>26<br>27<br>22<br>41<br>52<br>27<br>30<br>26<br>25<br>34<br>36<br>49<br>40  | GLM Biomass<br>8617<br>9647<br>10784<br>7341<br>11068<br>7774<br>4024<br>44247<br>4136<br>3092<br>2558<br>1268<br>1268<br>4779<br>3155<br>3303<br>2778<br>2230<br>2021<br>3659<br>3725<br>4786  |
| Year  | 1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989<br>1990<br>1991<br>1992<br>1993<br>1994<br>1995<br>1996<br>1997<br>1998<br>1999<br>2000<br>2001<br>2002<br>2003<br>2004   | Str1.1<br>6203<br>6070<br>1776<br>1757<br>1974<br>3338<br>887<br>515<br>473<br>375<br>616<br>385<br>140                                    | Str1.2<br>1008<br>1089<br>732<br>531<br>1218<br>311<br>300<br>321<br>524<br>437<br>465<br>270<br>430<br>112<br>269<br>270<br>151<br>367 | Str2.1<br>7776<br>9924<br>9028<br>3777<br>7653<br>5663<br>1750<br>1675<br>1321<br>504<br>273<br>106<br>1321<br>504<br>273<br>106<br>1336<br>355<br>154<br>714<br>436<br>1536<br>1546<br>1536<br>1795  | Str2.2<br>1163<br>526<br>851<br>1205<br>1352<br>791<br>391<br>400<br>303<br>262<br>144<br>139<br>178<br>337<br>259<br>290<br>361<br>332<br>1173<br>852                                      | Str3.1<br>811<br>3218<br>715<br>504<br>649<br>639<br>852<br>2101<br>247<br>303<br>211<br>83<br>64<br>72<br>167<br>359<br>195<br>190<br>116<br>104<br>125<br>129<br>129                                   | Str3.2<br>451<br>89<br>394<br>48<br>428<br>158<br>330<br>95<br>333<br>149<br>91<br>183<br>167<br>39<br>41<br>48<br>224<br>273<br>138   | Str4.1<br>147<br>279<br>257<br>299<br>410<br>214<br>235<br>256<br>372<br>222<br>158<br>27<br>110<br>127<br>162<br>197<br>197<br>95<br>61<br>164<br>117<br>186<br>239   | Str4.2   | Total<br>17559<br>21195<br>13753<br>8121<br>13684<br>10285<br>4962<br>5259<br>3584<br>2454<br>2340<br>1110<br>1077<br>444<br>1059<br>2046<br>1813<br>1374<br>1242<br>1386<br>902<br>3301  | Cl<br>34<br>41<br>58<br>33<br>47<br>37<br>31<br>35<br>42<br>26<br>27<br>22<br>41<br>52<br>27<br>30<br>26<br>25<br>34<br>36<br>49<br>40<br>28  | GLM Biomass<br>8617<br>9647<br>10784<br>7341<br>11068<br>7774<br>4597<br>4024<br>4247<br>4136<br>3092<br>2558<br>1268<br>4779<br>3155<br>3303<br>2778<br>2230<br>2021<br>3659<br>3725<br>4786<br>4651   |
| Year  | 1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989<br>1990<br>1991<br>1993<br>1994<br>1995<br>1997<br>1998<br>1997<br>2000<br>2001<br>2002<br>2003<br>2004<br>2004<br>2004   | Str1.1<br>6203<br>6070<br>1776<br>1757<br>1974<br>3338<br>887<br>515<br>473<br>375<br>616<br>385<br>140<br>231<br>484<br>319<br>254<br>135 | Str1.2<br>1008<br>1089<br>732<br>531<br>1218<br>311<br>300<br>321<br>524<br>437<br>465<br>270<br>430<br>112<br>269<br>270<br>151<br>367 | Str2.1<br>7776<br>9924<br>9028<br>3777<br>7653<br>5663<br>1750<br>1675<br>1321<br>504<br>273<br>106<br>130  | Str2.2<br>1163<br>526<br>851<br>1205<br>1352<br>791<br>391<br>400<br>303<br>262<br>144<br>139<br>178<br>337<br>259<br>290<br>361<br>332<br>1173<br>852<br>1559                              | Str3.1<br>811<br>3218<br>715<br>504<br>649<br>639<br>852<br>2101<br>247<br>303<br>211<br>83<br>64<br>72<br>167<br>359<br>195<br>190<br>116<br>104<br>125<br>129<br>141<br>225                            | Str3.2<br>451<br>899<br>394<br>48<br>428<br>147<br>158<br>330<br>95<br>333<br>149<br>91<br>183<br>3167<br>39<br>41<br>48<br>224<br>273<br>138<br>152                               | Str4.1<br>147<br>279<br>257<br>299<br>410<br>214<br>235<br>372<br>222<br>158<br>27<br>110<br>127<br>162<br>197<br>197<br>95<br>61<br>164<br>117<br>186<br>239<br>2170  | Str4.2   | Total<br>17559<br>21195<br>13753<br>8121<br>13684<br>10285<br>4962<br>5259<br>3584<br>2454<br>2340<br>1110<br>1077<br>444<br>1059<br>2046<br>1813<br>1374<br>1242<br>1386<br>902<br>3301<br>5214<br>4598                                | Cl<br>34<br>41<br>58<br>33<br>47<br>37<br>31<br>35<br>42<br>26<br>27<br>22<br>41<br>52<br>27<br>30<br>26<br>25<br>34<br>36<br>49<br>40<br>28<br>45  | GLM Biomass<br>8617<br>9647<br>10784<br>7341<br>11068<br>7774<br>4597<br>4024<br>4247<br>4136<br>3092<br>2558<br>1268<br>4779<br>3155<br>3303<br>2778<br>2230<br>2021<br>3659<br>3725<br>4786<br>4651<br>5536                                 |
| Year  | 1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989<br>1990<br>1991<br>1992<br>1993<br>1994<br>1995<br>1994<br>1995<br>1996<br>1997<br>1998<br>1999<br>2000<br>2001<br>2002<br>2003<br>2004                         | Str1.1<br>6203<br>6070<br>1776<br>1757<br>1974<br>3338<br>887<br>515<br>473<br>375<br>616<br>385<br>140                                    | Str1.2<br>1008<br>1089<br>732<br>531<br>1218<br>311<br>300<br>321<br>524<br>437<br>465<br>270<br>430                                    | Str2.1<br>7776<br>9924<br>9028<br>3777<br>7653<br>5663<br>1750<br>1675<br>1321<br>504<br>273<br>106<br>1320   | Str2.2<br>1163<br>526<br>851<br>1205<br>1352<br>791<br>391<br>400<br>303<br>262<br>144<br>139<br>178<br>337<br>259<br>290<br>361<br>332   | Str3.1<br>811<br>3218<br>715<br>504<br>649<br>639<br>852<br>2101<br>247<br>303<br>211<br>83<br>64<br>72<br>167<br>359<br>195<br>190<br>116<br>104<br>125<br>129<br>141<br>2255<br>140                    | Str3.2<br>451<br>899<br>394<br>48<br>428<br>147<br>158<br>330<br>95<br>333<br>149<br>91<br>183<br>167<br>399<br>41<br>48<br>224<br>273<br>138<br>152<br>127                        | Str4.1<br>147<br>279<br>257<br>299<br>410<br>214<br>235<br>256<br>372<br>222<br>222<br>158<br>27<br>110<br>127<br>162<br>197<br>197<br>197<br>197<br>197<br>197<br>195<br>61<br>164<br>117<br>186<br>239<br>170<br>235 | Str4.2   | Total<br>17559<br>21195<br>13753<br>8121<br>13684<br>10285<br>4962<br>5259<br>3584<br>2454<br>2454<br>2340<br>1110<br>1077<br>444<br>1059<br>2046<br>1813<br>1374<br>1242<br>1386<br>902<br>3301<br>5214<br>4598<br>3693                | Cl<br>34<br>41<br>58<br>33<br>47<br>31<br>35<br>42<br>26<br>27<br>22<br>27<br>22<br>41<br>52<br>27<br>30<br>26<br>25<br>34<br>36<br>49<br>40<br>28<br>45<br>45  | GLM Biomass<br>8617<br>9647<br>10784<br>7341<br>11068<br>7774<br>4597<br>4024<br>4247<br>4136<br>3092<br>2558<br>1268<br>4779<br>3155<br>3303<br>2778<br>2230<br>2021<br>3659<br>3725<br>4786<br>4651<br>5536<br>3672                         |
| Year  | 1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989<br>1990<br>1991<br>1992<br>1993<br>1994<br>1995<br>1994<br>1995<br>1996<br>1997<br>1998<br>1999<br>2000<br>2001<br>2002<br>2003<br>2004<br>2005                 | Str1.1<br>6203<br>6070<br>1776<br>1757<br>1974<br>3338<br>887<br>515<br>473<br>375<br>616<br>385<br>140<br>231<br>484<br>319<br>254<br>135 | Str1.2<br>1008<br>1089<br>732<br>531<br>1218<br>311<br>300<br>321<br>524<br>437<br>465<br>270<br>430                                    | Str2.1<br>7776<br>9924<br>9028<br>3777<br>7653<br>5663<br>1750<br>1675<br>1321<br>504<br>273<br>106<br>1320   | Str2.2<br>1163<br>526<br>851<br>1205<br>1352<br>791<br>391<br>400<br>303<br>262<br>144<br>139<br>178<br>337<br>259<br>290<br>361<br>332<br>1173<br>852<br>1559<br>1224<br>432               | Str3.1<br>811<br>3218<br>715<br>504<br>649<br>852<br>2101<br>247<br>303<br>211<br>83<br>64<br>72<br>167<br>359<br>195<br>190<br>116<br>104<br>125<br>129<br>141<br>255<br>140<br>90                      | Str3.2<br>451<br>899<br>394<br>48<br>428<br>147<br>158<br>330<br>95<br>333<br>149<br>91<br>183<br>167<br>39<br>41<br>48<br>224<br>273<br>138<br>152<br>152<br>152<br>152           | Str4.1<br>147<br>279<br>257<br>299<br>410<br>214<br>235<br>256<br>372<br>222<br>158<br>27<br>110<br>127<br>162<br>197<br>197<br>95<br>61<br>164<br>117<br>186<br>239<br>170<br>235<br>54                               | Str4.2<br>120<br>247<br>152<br>25<br>31<br>96<br>45<br>7<br>20<br>7<br>24<br>7<br>24<br>7<br>24<br>120 | Total<br>17559<br>21195<br>13753<br>8121<br>13684<br>10285<br>4962<br>5259<br>3584<br>2454<br>2340<br>1110<br>1077<br>444<br>1059<br>2046<br>1813<br>1374<br>1242<br>1386<br>902<br>3301<br>5214<br>4598<br>3693<br>2446                | Cl<br>34<br>41<br>58<br>33<br>47<br>31<br>35<br>42<br>26<br>27<br>22<br>27<br>22<br>41<br>52<br>27<br>30<br>26<br>25<br>34<br>36<br>49<br>40<br>28<br>45<br>45<br>41  | GLM Biomass<br>8617<br>9647<br>10784<br>7341<br>11068<br>7774<br>4597<br>4024<br>4247<br>4136<br>3092<br>2558<br>1268<br>4779<br>3155<br>3303<br>2778<br>2230<br>2021<br>3659<br>3725<br>4786<br>4651<br>5536<br>3672                         |
| Year  | 1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989<br>1990<br>1991<br>1992<br>1993<br>1994<br>1995<br>1996<br>1997<br>1998<br>1999<br>2000<br>2001<br>2002<br>2003<br>2004<br>2005<br>2006                         | Str1.1<br>6203<br>6070<br>1776<br>1757<br>1974<br>3338<br>887<br>515<br>473<br>375<br>616<br>385<br>140                                    | Str1.2<br>1008<br>1089<br>732<br>531<br>1218<br>311<br>300<br>321<br>524<br>437<br>465<br>270<br>430                                    | Str2.1<br>7776<br>9924<br>9028<br>3777<br>7653<br>5663<br>1750<br>1675<br>1321<br>504<br>273<br>106<br>1321<br>504<br>273<br>106<br>1321<br>504<br>273<br>106<br>1326<br>1321<br>504<br>154<br>714<br>436<br>1536<br>154<br>714<br>436<br>1536<br>1536<br>1795<br>2350<br>1148<br>695 | Str2.2<br>1163<br>526<br>851<br>1205<br>1352<br>791<br>391<br>400<br>303<br>262<br>144<br>139<br>178<br>337<br>259<br>290<br>361<br>332<br>1173<br>852<br>1559<br>1224<br>432               | Str3.1<br>811<br>3218<br>715<br>504<br>649<br>852<br>2101<br>247<br>303<br>211<br>83<br>64<br>722<br>167<br>359<br>195<br>190<br>116<br>104<br>125<br>129<br>141<br>255<br>140<br>90                     | Str3.2<br>451<br>89<br>394<br>48<br>428<br>147<br>158<br>330<br>95<br>333<br>149<br>91<br>183<br>167<br>39<br>41<br>48<br>224<br>273<br>138<br>152<br>127<br>66                    | Str4.1<br>147<br>279<br>257<br>299<br>410<br>214<br>235<br>256<br>372<br>222<br>158<br>27<br>110<br>127<br>197<br>197<br>95<br>61<br>164<br>117<br>186<br>239<br>170<br>235<br>5<br>44                                 | Str4.2   | Total<br>17559<br>21195<br>13753<br>8121<br>13684<br>10285<br>4962<br>5259<br>3584<br>2454<br>2340<br>1110<br>1077<br>444<br>1059<br>2046<br>1813<br>1374<br>1242<br>1386<br>902<br>3301<br>5214<br>4598<br>3693<br>2446                | Cl<br>34<br>41<br>58<br>33<br>47<br>37<br>37<br>37<br>37<br>37<br>26<br>27<br>22<br>41<br>52<br>27<br>30<br>26<br>25<br>34<br>36<br>49<br>40<br>28<br>45<br>45<br>45<br>45                                    | GLM Biomass<br>8617<br>9647<br>10784<br>7341<br>11068<br>7774<br>4024<br>4497<br>4136<br>3092<br>2558<br>1268<br>1268<br>1268<br>1268<br>2779<br>3155<br>3303<br>2778<br>2230<br>2021<br>3659<br>3725<br>4786<br>4651<br>5536<br>3672<br>2345 |
| Year  | 1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989<br>1990<br>1991<br>1992<br>1993<br>1994<br>1995<br>1996<br>1997<br>1998<br>1999<br>2000<br>2001<br>2002<br>2003<br>2004<br>2005<br>2006<br>2007<br>2008         | Str1.1<br>6203<br>6070<br>1776<br>1757<br>1974<br>3338<br>887<br>515<br>473<br>375<br>616<br>385<br>140                                    | Str1.2<br>1008<br>1089<br>732<br>531<br>1218<br>311<br>300<br>321<br>524<br>437<br>465<br>270<br>430<br>112<br>269<br>270<br>151<br>367 | Str2.1<br>7776<br>9924<br>9028<br>3777<br>7653<br>5663<br>1750<br>1675<br>1321<br>504<br>273<br>106<br>1321<br>504<br>273<br>106<br>1336<br>355<br>154<br>714<br>436<br>1536<br>1546<br>1795<br>2350<br>1148<br>695<br>404<br>310   | Str2.2<br>1163<br>526<br>851<br>1205<br>1352<br>791<br>391<br>400<br>303<br>262<br>144<br>139<br>178<br>337<br>259<br>290<br>361<br>332<br>1173<br>852<br>1559<br>1224<br>432<br>255        | Str3.1<br>811<br>3218<br>715<br>504<br>649<br>639<br>852<br>2101<br>247<br>303<br>211<br>83<br>64<br>72<br>167<br>359<br>195<br>190<br>116<br>104<br>125<br>129<br>141<br>255<br>140<br>90               | Str3.2<br>451<br>89<br>394<br>48<br>428<br>158<br>330<br>95<br>333<br>147<br>33<br>149<br>91<br>183<br>167<br>39<br>41<br>48<br>224<br>273<br>138<br>152<br>127<br>66<br>98        | Str4.1<br>147<br>279<br>257<br>299<br>410<br>214<br>235<br>256<br>372<br>222<br>158<br>27<br>110<br>127<br>162<br>197<br>197<br>95<br>61<br>164<br>117<br>186<br>62<br>399<br>170<br>235<br>54<br>62                   | Str4.2   | Total<br>17559<br>21195<br>13753<br>8121<br>13684<br>10285<br>4962<br>5259<br>3584<br>2454<br>2340<br>1110<br>1077<br>444<br>1059<br>2046<br>1813<br>1374<br>1242<br>1386<br>902<br>3301<br>5214<br>4598<br>3693<br>2446<br>1501        | Cl<br>34<br>41<br>58<br>33<br>37<br>37<br>31<br>35<br>42<br>26<br>27<br>22<br>41<br>52<br>27<br>22<br>41<br>52<br>23<br>34<br>36<br>49<br>40<br>28<br>45<br>45<br>45<br>41<br>51<br>37                        | GLM Biomass<br>8617<br>9647<br>10784<br>7341<br>11068<br>7774<br>4597<br>4024<br>4247<br>4136<br>3092<br>2558<br>1268<br>4779<br>3155<br>3303<br>2778<br>2230<br>2021<br>3659<br>3725<br>4786<br>4651<br>5536<br>3672<br>2345                 |
| Year  | 1982<br>1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989<br>1990<br>1991<br>1992<br>1993<br>1994<br>1995<br>1996<br>1997<br>1998<br>1999<br>2000<br>2001<br>2002<br>2003<br>2004<br>2005<br>2004<br>2005<br>2006 | Str1.1<br>6203<br>6070<br>1776<br>1757<br>1974<br>3388<br>887<br>515<br>473<br>375<br>616<br>385<br>140                                    | Str1.2<br>1008<br>1089<br>732<br>531<br>1218<br>311<br>300<br>321<br>524<br>437<br>465<br>270<br>430<br>112<br>269<br>270<br>151<br>367 | Str2.1<br>7776<br>9924<br>9028<br>3777<br>7653<br>5663<br>1750<br>1675<br>1321<br>504<br>273<br>106<br>1300<br>73<br>210<br>386<br>355<br>154<br>714<br>436<br>1536<br>1795<br>2350<br>1148<br>695<br>404<br>310  | Str2.2<br>1163<br>526<br>851<br>1205<br>1352<br>791<br>391<br>400<br>303<br>262<br>144<br>139<br>178<br>337<br>259<br>290<br>361<br>332<br>1173<br>852<br>1559<br>1224<br>432<br>528<br>255 | Str3.1<br>811<br>3218<br>715<br>504<br>649<br>639<br>852<br>2101<br>247<br>303<br>211<br>83<br>64<br>72<br>167<br>359<br>195<br>190<br>116<br>104<br>125<br>129<br>141<br>2255<br>140<br>90<br>377<br>93 | Str3.2<br>451<br>89<br>394<br>48<br>428<br>1147<br>158<br>330<br>95<br>333<br>149<br>91<br>183<br>3167<br>39<br>41<br>48<br>224<br>273<br>138<br>152<br>127<br>66<br>98<br>78<br>8 | Str4.1<br>147<br>279<br>257<br>299<br>410<br>214<br>235<br>256<br>372<br>222<br>158<br>27<br>110<br>127<br>162<br>197<br>197<br>95<br>61<br>164<br>117<br>186<br>239<br>170<br>235<br>54<br>62                         | Str4.2<br>120<br>247<br>152<br>255   | Total<br>17559<br>21195<br>13753<br>8121<br>13684<br>10285<br>4962<br>5259<br>3584<br>2454<br>2340<br>1110<br>1077<br>444<br>1059<br>2046<br>1813<br>1374<br>1242<br>1386<br>902<br>3301<br>5214<br>4598<br>3693<br>2446<br>1501<br>799 | Cl<br>34<br>41<br>58<br>33<br>37<br>37<br>31<br>35<br>42<br>26<br>27<br>22<br>41<br>52<br>27<br>22<br>41<br>52<br>27<br>30<br>26<br>25<br>34<br>36<br>49<br>40<br>28<br>45<br>45<br>45<br>41<br>51<br>7<br>34 | GLM Biomass<br>8617<br>9647<br>10784<br>7341<br>11068<br>7774<br>4597<br>4024<br>4247<br>4136<br>3092<br>2558<br>1268<br>4779<br>3155<br>3303<br>2778<br>2230<br>2021<br>3659<br>3725<br>4786<br>4651<br>5536<br>3672<br>2345<br>1905         |

| Length | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 |
|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0.5    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 1.5    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 2.5    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 3.5    | 0    | 6    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 4.5    | 14   | 87   | 6    | 44   | 18   | 0    | 198  | 0    | 18   | 0    | 0    | 0    | 136  |
| 5.5    | 0    | 43   | 0    | 6    | 0    | 0    | 141  | 0    | 0    | 0    | 0    | 19   | 66   |
| 6.5    | 51   | 95   | 71   | 0    | 13   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 10   |
| 7.5    | 506  | 546  | 183  | 134  | 53   | 0    | 28   | 19   | 42   | 0    | 0    | 0    | 254  |
| 8.5    | 353  | 334  | 148  | 203  | 80   | 0    | 36   | 29   | 6    | 14   | 126  | 0    | 360  |
| 9.5    | 194  | 435  | 147  | 241  | 143  | 107  | 194  | 31   | 182  | 14   | 0    | 22   | 411  |
| 10.5   | 139  | 635  | 183  | 533  | 245  | 151  | 203  | 32   | 401  | 108  | 25   | 173  | 190  |
| 11.5   | 278  | 1106 | 414  | 768  | 334  | 233  | 278  | 0    | 661  | 140  | 20   | 41   | 246  |
| 12.5   | 406  | 1281 | 604  | 989  | 537  | 315  | 1720 | 9    | 914  | 469  | 196  | 484  | 407  |
| 13.5   | 761  | 796  | 932  | 1582 | 1036 | 1352 | 3931 | 355  | 934  | 1227 | 778  | 488  | 2142 |
| 14.5   | 1164 | 1053 | 1003 | 2031 | 1711 | 1804 | 4534 | 739  | 1147 | 1328 | 832  | 939  | 3704 |
| 15.5   | 2329 | 1269 | 1273 | 2161 | 2470 | 3390 | 4324 | 986  | 1889 | 1640 | 955  | 1581 | 4588 |
| 16.5   | 2540 | 1183 | 1227 | 2057 | 2344 | 4059 | 4679 | 2051 | 1527 | 1427 | 775  | 1164 | 4652 |
| 17.5   | 3044 | 1089 | 965  | 1700 | 2571 | 3489 | 4258 | 2180 | 1957 | 1493 | 1460 | 1895 | 4321 |
| 18.5   | 2233 | 1180 | 816  | 1644 | 1940 | 2658 | 4689 | 2256 | 1440 | 1345 | 1284 | 1645 | 3596 |
| 19.5   | 1817 | 1165 | 625  | 1039 | 1845 | 2898 | 3563 | 1792 | 1771 | 1015 | 948  | 805  | 3468 |
| 20.5   | 1309 | 1272 | 647  | 1159 | 1333 | 1868 | 3374 | 1239 | 1984 | 1014 | 1145 | 1145 | 2445 |
| 21.5   | 966  | 1365 | 494  | 876  | 929  | 2047 | 3086 | 1240 | 1351 | 999  | 940  | 1251 | 2069 |
| 22.5   | 816  | 810  | 562  | 421  | 1146 | 1442 | 2105 | 999  | 1513 | 1332 | 798  | 628  | 2088 |
| 23.5   | 701  | 679  | 634  | 430  | 741  | 1534 | 2354 | 847  | 1451 | 1109 | 781  | 885  | 1641 |
| 24.5   | 759  | 729  | 534  | 329  | 736  | 1302 | 2414 | 1038 | 1066 | 1040 | 460  | 727  | 1473 |
| 25.5   | 674  | 429  | 579  | 211  | 692  | 1446 | 2548 | 1304 | 874  | 1227 | 441  | 602  | 1667 |
| 26.5   | 757  | 433  | 402  | 402  | 637  | 1061 | 2030 | 1694 | 889  | 706  | 474  | 459  | 831  |
| 27.5   | 535  | 536  | 360  | 352  | 406  | 1122 | 1770 | 1279 | 934  | 524  | 635  | 491  | 958  |
| 28.5   | 530  | 366  | 371  | 384  | 442  | 648  | 1867 | 1455 | 1124 | 421  | 337  | 183  | 892  |
| 29.5   | 366  | 232  | 206  | 253  | 299  | 925  | 1947 | 1504 | 891  | 537  | 478  | 269  | 659  |
| 30.5   | 339  | 270  | 246  | 210  | 471  | 511  | 1080 | 1391 | 999  | 268  | 315  | 322  | 743  |
| 31.5   | 211  | 132  | 178  | 115  | 136  | 401  | 434  | 982  | 744  | 365  | 419  | 109  | 343  |
| 32.5   | 123  | 146  | 232  | 119  | 211  | 240  | 460  | 771  | 766  | 361  | 77   | 115  | 175  |
| 33.5   | 58   | 50   | 84   | 77   | 145  | 141  | 180  | 647  | 417  | 219  | 148  | 115  | 250  |
| 34.5   | 44   | 48   | 79   | 50   | 77   | 61   | 297  | 599  | 219  | 207  | 89   | 24   | 108  |
| 35.5   | 10   | 40   | 26   | 22   | 55   | 34   | 139  | 370  | 312  | 108  | 59   | 6    | 98   |
| 36.5   | 24   | 30   | 42   | 0    | 33   | 73   | 69   | 298  | 161  | 112  | 61   | 21   | 63   |
| 37.5   | 27   | 10   | 26   | 0    | 5    | 8    | 62   | 359  | 67   | 125  | 24   | 9    | 37   |
| 38.5   | 5    | 0    | 0    | 0    | 5    | 13   | 63   | 66   | 35   | 21   | 31   | 6    | 26   |
| 39.5   | 10   | 0    | 0    | 11   | 13   | 0    | 9    | 104  | 0    | 36   | 0    | 0    | 8    |
| 40.5   | 0    | 0    | 6    | 0    | 0    | 0    | 0    | 45   | 21   | 8    | 0    | 0    | 0    |

Table 10 Hippoglossoides platessoides. Length composition by year ('1000), 1998-2010.

Table 11 *Anarhichas lupus*, abundance ('1000) and biomass indices (tons) for West Greenland by stratum and total, 1982-2010. Confidence intervals (CI) are given in per cent of the stratified mean at 95% level of significance for West Greenland.

| Abund | lance  |  |   |   |  |  |   |   |   |  |  |   |
|-------|--|--|---|---|--|--|---|---|---|--|--|---|
| Year  |  | Str1.1   | Str1.2  | Str2.1  | Str2.2   | Str3.1   | Str3.2  | Str4.1  | Str4.2  | Total  | CI   |   |
|       | 1982   | 11313  | 3985  | 3703  | 2377   | 1783   | 701   | 866   |   | 24728  | 19   |   |
|       | 1983   | 6501   | 2884  | 1501  | 412  | 2798   | 263   | 989   |   | 15348  | 20   |   |
|       | 1984   | 6325   | 1223  | 1531  | 205  | 1347   | 104   | 868   |   | 11603  | 17   |   |
|       | 1985   | 4607   | 2413  | 1569  | 344  | 898  | 1009  | 880   |   | 11720  | 19   |   |
|       | 1986   | 4371   | 1685  | 1844  | 581  | 1283   | 487   | 717   |   | 10968  | 25   |   |
|       | 1987   | 5086   | 1006  | 821   |  | 957  |   | 666   | 1060  | 9596   | 19   |   |
|       | 1988   | 4731   | 2060  | 856   | 403  | 1165   | 617   | 773   |   | 10605  | 25   |   |
|       | 1989   | 3804   | 712   | 2063  | 537  | 2472   |   | 1043  |   | 10631  | 21   |   |
|       | 1990   | 4350   | 1277  | 2118  | 358  | 1912   |   | 1319  | 657   | 11991  | 22   |   |
|       | 1991   | 3389   | 1088  | 978   | 1026   | 2758   | 684   | 724   | 446   | 11093  | 27   |   |
|       | 1992   | 3250   | 469   | 1713  | 1831   | 3376   | 950   | 1607  | 1988  | 15184  | 31   |   |
|       | 1993   | 5407   | 2174  | 941   | 487  | 675  | 463   | 448   |   | 10595  | 29   |   |
|       | 1994   | 1466   | 1264  | 1622  | 568  | 1196   | 156   | 4474  | 1213  | 11959  | 46   |   |
|       | 1995   |  |   |   |  | 1372   | 615   | 545   | 958   | 3490   | 31   |   |
|       | 1996   | 812  | 1067  | 273   | 419  | 2816   | 780   | 843   | 1264  | 8274   | 33   |   |
|       | 1997   | 3063   | 1280  | 1070  | 336  | 3849   | 1295  | 1674  | 2880  | 15447  | 36   |   |
|       | 1998   | 3372   | 1011  | 855   | 718  | 2076   | 821   | 1077  | 1099  | 11029  | 28   |   |
|       | 1999   | 4692   | 1049  | 2066  | 740  | 6453   | 1423  | 1144  | 1000  | 17567  | 46   |   |
|       | 2000   | 2075   | 1927  | 456   | 460  | 2321   | 1284  | 521   | . 3174  | 12218  | 34   |   |
|       | 2001   | 2010   | 1021  | 1120  | 1249   | 3962   | 1300  | 788   | 2057  | 10476  | 34   |   |
|       | 2001   | •  | •   | 3212  | 12-15  | 3615   | 463   | 557   | 2007  | 78/7   | 40   |   |
|       | 2002   | •  | •   | 1407  | 2028   | 7789   | 607   | 647   | 1748  | 14226  | 46   |   |
|       | 2000   | . 8005   | 2/36  | 1906  | 035  | 3423   | 1354  | 1370  | 2088  | 22/26  | 23   |   |
|       | 2004   | 0305   | 2400  | 305/  | 522  | 6508   | 1374  | 28/8  | 2000  | 16044  | /11  |   |
|       | 2000   | 2123   | . 1610  | 1800  | 008  | 1677   | 1252  | 1573  | 1573  | 10640  | 32   |   |
|       | 2000   | 2720   | 661   | 1269  | 900  | 2270   | 004   | 1373  | 1152  | 0051   | 24   |   |
|       | 2007   | 1/11   | 001   | 601   | 365  | 575  | 358   | 920   | 887   | /518   | 27   |   |
|       | 2000   | 1411   | •   | 1025  | 190  | 1007   | 460   | 120   | 700   | 2610   | 20   |   |
|       | 2009   |  |   | 1422  | 109  | 1097   | 400   | 200   | 1101  | 0019   | 39   |   |
|       | 2010   | 2023   | 407   | 1455  | 127  | 1203   | 014   | 399   | 1101  | 0247   | 31   |   |
| Diama | ~  |  |   |   |  |  |   |   |   |  |  |   |
| Voor  | 55   | Ctr1 1   | Ctr1 2  | C+r2 1  | C++-2 2  | C+r2 1   | C+r2 2  | Ctr / 1   | C+r 1 2   | Total  | 0  | CI M Diamaga  |
| rear  | 1000   | Su 1.1   | Su I.Z  | Su 2.1  | 3u 2.2   | 0170   | 303.2   | Su 4. 1   | 3u4.2   | 10181  |  | GLIVI DIOMASS   |
|       |  | 1/11/01  | 2527  | L /11 . 1   | /  |  |   | 1120  |   |  | · 11-  | 1.16.16   |
|       | 1902   | 10181  | 3527  | 5402  | 207  | 2172   | 122   | 1130  | •   | 21238  | 26   | 13625   |
|       | 1983   | 10181<br>3223  | 3527<br>3074  | 5402<br>1828  | 397  | 4221   | 343   | 1130<br>1379  |   | 27238  | 26   | 13625<br>8133   |
|       | 1983<br>1984   | 10181<br>3223<br>3305  | 3527<br>3074<br>665   | 5402<br>1828<br>1297  | 397<br>208   | 4221<br>803  | 722<br>343<br>70  | 1130<br>1379<br>1038  | •<br>•  | 27238<br>14465<br>7386   | 26<br>27<br>18   | 13625<br>8133<br>6679   |
|       | 1983<br>1984<br>1985   | 10181<br>3223<br>3305<br>1608  | 3527<br>3074<br>665<br>998  | 5402<br>1828<br>1297<br>1025  | 397<br>208<br>190  | 4221<br>803<br>535   | 722<br>343<br>70<br>557                                   | 1130<br>1379<br>1038<br>617   | •<br>•<br>•   | 27238<br>14465<br>7386<br>5530   | 26<br>27<br>18<br>19   | 13625<br>8133<br>6679<br>5412   |
|       | 1982<br>1983<br>1984<br>1985<br>1986   | 10181<br>3223<br>3305<br>1608<br>1587  | 3527<br>3074<br>665<br>998<br>895   | 5402<br>1828<br>1297<br>1025<br>1336  | 397<br>208<br>190<br>392   | 4221<br>803<br>535<br>855  | 722<br>343<br>70<br>557<br>427                            | 1130<br>1379<br>1038<br>617<br>684  |   | 27238<br>14465<br>7386<br>5530<br>6176   | 26<br>27<br>18<br>19<br>23   | 13625<br>8133<br>6679<br>5412<br>6610   |
|       | 1982<br>1983<br>1984<br>1985<br>1985<br>1986<br>1987   | 10181<br>3223<br>3305<br>1608<br>1587<br>2129  | 3527<br>3074<br>665<br>998<br>895<br>315  | 5402<br>1828<br>1297<br>1025<br>1336<br>538   | 397<br>208<br>190<br>392   | 4221<br>4221<br>803<br>535<br>855<br>992   | 722<br>343<br>70<br>557<br>427                            | 1130<br>1379<br>1038<br>617<br>684<br>622   |   | 27238<br>14465<br>7386<br>5530<br>6176<br>5619   | 26<br>27<br>18<br>19<br>23<br>20   | 13625<br>8133<br>6679<br>5412<br>6610<br>6941   |
|       | 1982<br>1983<br>1984<br>1985<br>1986<br>1986<br>1987<br>1988   | 10181<br>3223<br>3305<br>1608<br>1587<br>2129<br>1067  | 3527<br>3074<br>665<br>998<br>895<br>315<br>429   | 5402<br>1828<br>1297<br>1025<br>1336<br>538<br>761  | 397<br>208<br>190<br>392<br>269  | 4221<br>4221<br>803<br>535<br>855<br>992<br>907  | 722<br>343<br>70<br>557<br>427<br>388                     | 1130<br>1379<br>1038<br>617<br>684<br>622<br>702  |   | 27238<br>14465<br>7386<br>5530<br>6176<br>5619<br>4523   | 26<br>27<br>18<br>19<br>23<br>20<br>20   | 13625<br>8133<br>6679<br>5412<br>6610<br>6941<br>4827   |
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|       | 1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989<br>1990<br>1991<br>1992   | 10181<br>3223<br>3305<br>1608<br>1587<br>2129<br>1067<br>770<br>905<br>544<br>486                | 3527<br>3074<br>665<br>998<br>895<br>315<br>429<br>231<br>204<br>175<br>103   | 5402<br>1828<br>1297<br>1025<br>1336<br>538<br>761<br>733<br>534<br>162<br>347  | - 104<br>- 397<br>- 208<br>- 190<br>- 392<br>- 269<br>- 275<br>- 127<br>- 210<br>- 522<br>- 460  | 4221<br>4221<br>803<br>535<br>855<br>992<br>907<br>1571<br>699<br>715<br>901   | 122<br>343<br>70<br>557<br>427                            | 1130<br>1379<br>1038<br>617<br>684<br>622<br>702<br>965<br>857<br>369<br>397  |   | 27238<br>14465<br>7386<br>5530<br>6176<br>5619<br>4523<br>4545<br>3666<br>2530<br>3568   | 26<br>27<br>18<br>19<br>23<br>20<br>20<br>27<br>22<br>30<br>33   | 13625<br>8133<br>6679<br>5412<br>6610<br>6941<br>4827<br>4335<br>4103<br>2810<br>3734   |
|       | 1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989<br>1990<br>1991<br>1992<br>1993   | 10181<br>3223<br>3305<br>1608<br>1587<br>2129<br>1067<br>770<br>905<br>544<br>486<br>783         | 3527<br>3074<br>665<br>998<br>895<br>315<br>429<br>231<br>204<br>175<br>103<br>398  | 5402<br>1828<br>1297<br>1025<br>1336<br>538<br>761<br>733<br>534<br>162<br>347<br>131   | - 104<br>- 397<br>- 208<br>- 190<br>- 392<br>- 269<br>- 275<br>- 127<br>- 210<br>- 522<br>- 100<br>  | 4221<br>4221<br>803<br>535<br>855<br>992<br>907<br>1571<br>699<br>715<br>901<br>157  | 122<br>343<br>70<br>557<br>427<br>388<br>161<br>206<br>95 | 1130<br>1379<br>1038<br>617<br>684<br>622<br>702<br>965<br>857<br>369<br>397<br>130   |   | 27238<br>14465<br>7386<br>5530<br>6176<br>5619<br>4523<br>4545<br>3666<br>2530<br>3568<br>1794   | 26<br>27<br>18<br>19<br>23<br>20<br>20<br>20<br>27<br>22<br>30<br>33<br>24   | 13625<br>8133<br>6679<br>5412<br>6610<br>6941<br>4827<br>4335<br>4103<br>2810<br>3734<br>2575   |
|       | 1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989<br>1990<br>1991<br>1992<br>1993<br>1994   | 10181<br>3223<br>3305<br>1608<br>1587<br>2129<br>1067<br>770<br>905<br>544<br>486<br>783<br>204  | 3527<br>3074<br>665<br>998<br>895<br>315<br>429<br>231<br>204<br>175<br>103<br>398<br>221                                     | 5402<br>1828<br>1297<br>1025<br>1336<br>538<br>761<br>733<br>534<br>162<br>347<br>131<br>353  | - 104<br>397<br>208<br>190<br>392<br>269<br>275<br>127<br>210<br>522<br>100<br>97  | 4221<br>4221<br>803<br>535<br>855<br>992<br>907<br>1571<br>699<br>715<br>901<br>157<br>283<br>285  | 122<br>343<br>70<br>557<br>427                            | 1130<br>1379<br>1038<br>617<br>684<br>622<br>702<br>965<br>857<br>369<br>397<br>130<br>859  |   | 27238<br>14465<br>7386<br>5530<br>6176<br>5619<br>4523<br>4545<br>3666<br>2530<br>3568<br>1794<br>2243   | 26<br>27<br>18<br>19<br>23<br>20<br>20<br>27<br>22<br>30<br>33<br>24<br>45   | 13625<br>8133<br>6679<br>5412<br>6610<br>6941<br>4827<br>4103<br>2810<br>3734<br>2575<br>2214   |
|       | 1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989<br>1990<br>1991<br>1992<br>1993<br>1994<br>1995   | 10181<br>3223<br>3305<br>1608<br>1587<br>2129<br>1067<br>770<br>905<br>544<br>486<br>783<br>204  | 3527<br>3074<br>665<br>998<br>895<br>315<br>429<br>231<br>204<br>175<br>103<br>398<br>221                                     | 5402<br>1828<br>1297<br>1025<br>1336<br>538<br>761<br>733<br>534<br>162<br>347<br>131<br>353  | - 104<br>397<br>208<br>190<br>392<br>269<br>275<br>127<br>210<br>522<br>100<br>97  | 2172<br>4221<br>803<br>535<br>855<br>992<br>907<br>1571<br>699<br>715<br>901<br>157<br>283<br>253  | 122<br>343<br>70<br>557<br>427                            | 1130<br>1379<br>1038<br>617<br>684<br>622<br>702<br>965<br>857<br>369<br>397<br>130<br>859<br>130   |   | 27238<br>14465<br>7386<br>5530<br>6176<br>5619<br>4523<br>4545<br>3666<br>2530<br>3568<br>1794<br>2243<br>615  | 26<br>27<br>18<br>19<br>23<br>20<br>20<br>20<br>27<br>22<br>30<br>33<br>24<br>45<br>29   | 13625<br>8133<br>6679<br>5412<br>6610<br>6941<br>4827<br>4335<br>4103<br>2810<br>3734<br>2575<br>2214<br>3756   |
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|       | 1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989<br>1990<br>1991<br>1992<br>1993<br>1994<br>1995<br>1996<br>1997   | 10181<br>3223<br>3305<br>1608<br>1587<br>2129<br>1067<br>770<br>905<br>544<br>486<br>783<br>204  | 3527<br>3074<br>665<br>998<br>895<br>315<br>429<br>231<br>204<br>175<br>103<br>398<br>221                                     | 5402<br>1828<br>1297<br>1025<br>1336<br>538<br>761<br>733<br>534<br>162<br>347<br>131<br>353  | +104<br>397<br>208<br>190<br>392<br>269<br>275<br>127<br>210<br>522<br>100<br>97<br>75<br>78<br>78   | 2172<br>4221<br>803<br>535<br>855<br>992<br>907<br>1571<br>699<br>715<br>901<br>157<br>283<br>253<br>531<br>691  | 122<br>343<br>70<br>557<br>427                            | 1130<br>1379<br>1038<br>617<br>684<br>622<br>702<br>965<br>857<br>369<br>397<br>130<br>859<br>137<br>178<br>386   |   | 27238<br>14465<br>7386<br>5530<br>6176<br>5619<br>4523<br>4545<br>3666<br>2530<br>3568<br>1794<br>2243<br>615<br>1620<br>2356  | 26<br>27<br>18<br>19<br>23<br>20<br>20<br>27<br>22<br>30<br>33<br>33<br>24<br>45<br>29<br>33<br>9  | 13625<br>8133<br>6679<br>5412<br>6610<br>6941<br>4827<br>4335<br>4103<br>2810<br>2810<br>2810<br>2810<br>2815<br>2214<br>3734<br>2575<br>2214<br>3756<br>3795<br>3354   |
|       | 1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989<br>1990<br>1991<br>1992<br>1993<br>1994<br>1995<br>1996<br>1997   | 10181<br>3223<br>3305<br>1608<br>1587<br>2129<br>1067<br>770<br>905<br>544<br>486<br>783<br>204  | 3527<br>3074<br>665<br>998<br>895<br>315<br>429<br>231<br>204<br>175<br>103<br>398<br>221<br>298<br>244<br>208                | 5402<br>1828<br>1297<br>1025<br>1336<br>538<br>761<br>733<br>534<br>162<br>347<br>131<br>353  | - 104<br>- 397<br>- 208<br>190<br>- 392<br>- 269<br>- 275<br>127<br>- 210<br>- 522<br>- 100<br>- 97<br><br>- 75<br>- 78<br>- 159<br><br>   | 2172<br>4221<br>803<br>535<br>855<br>992<br>907<br>1571<br>699<br>715<br>901<br>157<br>283<br>253<br>531<br>691<br>299   | 722<br>343<br>70<br>557<br>427                            | 1130<br>1379<br>1038<br>617<br>684<br>622<br>702<br>965<br>857<br>369<br>397<br>130<br>859<br>137<br>178<br>386<br>137  |   | 27238<br>14465<br>7386<br>5530<br>6176<br>5619<br>4523<br>4545<br>3666<br>2530<br>3568<br>1794<br>2243<br>615<br>1620<br>2358<br>1786  | 26<br>27<br>18<br>19<br>23<br>20<br>20<br>27<br>22<br>30<br>33<br>32<br>4<br>45<br>29<br>33<br>39<br>255   | 13625<br>8133<br>6679<br>5412<br>6610<br>6941<br>4827<br>4335<br>4103<br>2810<br>3734<br>2575<br>2214<br>3756<br>3795<br>3544<br>2694   |
|       | 1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989<br>1990<br>1991<br>1992<br>1993<br>1994<br>1995<br>1996<br>1997<br>1998<br>1999   | 10181<br>3223<br>3305<br>1608<br>1587<br>2129<br>1067<br>7770<br>905<br>544<br>486<br>783<br>204 | 3527<br>3074<br>665<br>998<br>895<br>315<br>429<br>231<br>204<br>175<br>103<br>398<br>221                                     | 5402<br>1828<br>1297<br>1025<br>1336<br>538<br>761<br>733<br>534<br>162<br>347<br>131<br>353  | - 104<br>- 397<br>208<br>- 190<br>- 392<br>- 269<br>275<br>- 127<br>- 210<br>- 522<br>- 100<br>- 97<br>  | 4221<br>803<br>535<br>855<br>992<br>907<br>1571<br>699<br>715<br>901<br>157<br>283<br>253<br>531<br>691<br>299<br>1072   | 722<br>343<br>70<br>557<br>427                            | 1130<br>1379<br>1038<br>617<br>684<br>622<br>702<br>965<br>857<br>369<br>397<br>130<br>859<br>137<br>178<br>386<br>184  |   | 27238<br>14465<br>7386<br>5530<br>6176<br>5619<br>4523<br>4545<br>3666<br>2530<br>3568<br>1794<br>2243<br>615<br>1620<br>2358<br>1786<br>2613  | 26<br>27<br>18<br>19<br>23<br>20<br>20<br>27<br>22<br>30<br>33<br>24<br>45<br>29<br>33<br>39<br>25<br>45   | 13625<br>8133<br>6679<br>5412<br>6610<br>6941<br>4827<br>4335<br>4103<br>2810<br>3734<br>2575<br>2214<br>3756<br>3795<br>3544<br>2694<br>3817   |
|       | 1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989<br>1990<br>1991<br>1992<br>1993<br>1994<br>1995<br>1996<br>1997<br>1998<br>1999<br>2000   | 10181<br>3223<br>3305<br>1608<br>1587<br>2129<br>1067<br>770<br>905<br>544<br>486<br>783<br>204  | 3527<br>3074<br>665<br>998<br>895<br>315<br>429<br>231<br>204<br>175<br>103<br>398<br>221                                     | 5402<br>1828<br>1297<br>1025<br>1336<br>538<br>761<br>733<br>534<br>162<br>347<br>131<br>353  | - 104<br>- 397<br>- 208<br>- 190<br>- 392<br>- 269<br>- 275<br>- 127<br>- 210<br>- 522<br>- 100<br>- 97<br><br>- 75<br>- 78<br>- 159<br>- 166<br>- 95<br>  | 2172<br>4221<br>803<br>535<br>855<br>992<br>907<br>1571<br>699<br>715<br>901<br>157<br>283<br>253<br>531<br>691<br>299<br>1072<br>399  | 722<br>343<br>700<br>557<br>427                           | 1130<br>1379<br>1038<br>617<br>684<br>622<br>702<br>965<br>857<br>369<br>397<br>130<br>859<br>137<br>178<br>386<br>184<br>186   |   | 27238<br>14465<br>7386<br>5530<br>6176<br>5619<br>4523<br>4545<br>3666<br>2530<br>3568<br>1794<br>2243<br>615<br>1620<br>2358<br>1786<br>2613<br>2200  | 26<br>27<br>18<br>19<br>23<br>20<br>20<br>20<br>27<br>22<br>30<br>33<br>24<br>45<br>29<br>33<br>39<br>25<br>45<br>39   | 13625<br>8133<br>6679<br>5412<br>6610<br>6941<br>4827<br>4103<br>2810<br>3734<br>2575<br>2214<br>3756<br>3795<br>3544<br>2694<br>3817<br>2256   |
|       | 1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989<br>1990<br>1991<br>1992<br>1993<br>1994<br>1995<br>1996<br>1997<br>1998<br>1999<br>2000<br>2001   | 10181<br>3223<br>3305<br>1608<br>1587<br>2129<br>1067<br>770<br>905<br>544<br>486<br>783<br>204  | 3527<br>3074<br>665<br>998<br>895<br>315<br>429<br>231<br>204<br>175<br>103<br>398<br>221                                     | 5402<br>1828<br>1297<br>1025<br>1336<br>538<br>761<br>733<br>534<br>162<br>347<br>131<br>353<br>466<br>866<br>136<br>343<br>77<br>235<br>235  | - 104<br>- 397<br>- 208<br>190<br>- 392<br>- 269<br>275<br>127<br>- 210<br>522<br>100<br>97<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-   | 2172<br>4221<br>803<br>535<br>855<br>992<br>907<br>1571<br>699<br>715<br>901<br>1577<br>283<br>253<br>531<br>691<br>299<br>1072<br>399   | 722<br>343<br>700<br>557<br>427                           | 1130<br>1379<br>1038<br>617<br>684<br>622<br>702<br>965<br>857<br>369<br>397<br>130<br>859<br>137<br>178<br>386<br>184<br>188<br>188  | ·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>· | 27238<br>14465<br>7386<br>5530<br>6176<br>5619<br>4523<br>4545<br>3666<br>2530<br>3568<br>1794<br>2243<br>615<br>1620<br>2358<br>1786<br>2613<br>2200<br>2657  | 26<br>27<br>18<br>19<br>23<br>20<br>20<br>27<br>22<br>30<br>33<br>32<br>24<br>45<br>39<br>37<br>39<br>25<br>45   | 13625<br>8133<br>6679<br>5412<br>6610<br>6941<br>4827<br>4335<br>4103<br>2810<br>3734<br>2575<br>2214<br>3756<br>3795<br>3544<br>2694<br>3817<br>2526<br>5799   |
|       | 1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989<br>1990<br>1991<br>1992<br>1993<br>1994<br>1995<br>1996<br>1997<br>1998<br>1999<br>2000<br>2001<br>2002   | 10181<br>3223<br>3305<br>1608<br>1587<br>2129<br>1067<br>770<br>905<br>544<br>486<br>783<br>204  | 3527<br>3074<br>665<br>998<br>8895<br>315<br>429<br>231<br>204<br>175<br>103<br>398<br>221                                    | 5402<br>1828<br>1297<br>1025<br>1336<br>538<br>761<br>733<br>534<br>162<br>347<br>131<br>353<br>466<br>866<br>1366<br>343<br>777<br>235<br>631  | - 104<br>- 397<br>- 208<br>190<br>- 392<br>- 269<br>275<br>127<br>210<br>522<br>100<br>- 522<br>100<br>- 575<br>- 78<br>159<br>166<br>95<br>297<br>-   | 2172<br>4221<br>803<br>535<br>855<br>992<br>907<br>1571<br>699<br>715<br>901<br>1577<br>283<br>253<br>531<br>691<br>299<br>1072<br>399<br>1072<br>399  | 722<br>343<br>700<br>557<br>427                           | 1130<br>1379<br>1038<br>617<br>684<br>622<br>702<br>965<br>857<br>369<br>397<br>130<br>859<br>137<br>178<br>386<br>184<br>188<br>198  | ·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·                          | 27238<br>14465<br>7386<br>5530<br>6176<br>5619<br>4523<br>4545<br>3666<br>2530<br>3568<br>1794<br>2243<br>615<br>1620<br>2358<br>1786<br>2613<br>2200<br>2657<br>1803  | 26<br>27<br>18<br>19<br>23<br>20<br>20<br>27<br>22<br>30<br>33<br>24<br>45<br>29<br>33<br>25<br>45<br>39<br>37<br>38   | 13625<br>8133<br>6679<br>5412<br>6610<br>6941<br>4827<br>4335<br>4103<br>2810<br>3734<br>22575<br>2214<br>3756<br>3795<br>3544<br>2694<br>3817<br>22526<br>5799<br>4523   |
|       | 1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989<br>1990<br>1991<br>1992<br>1993<br>1994<br>1995<br>1995<br>1995<br>1995<br>1997<br>1998<br>1999<br>2000<br>2001<br>2002   | 10181<br>3223<br>3305<br>1608<br>1587<br>2129<br>1067<br>770<br>905<br>544<br>486<br>783<br>204  | 3527<br>3074<br>665<br>998<br>8895<br>315<br>429<br>231<br>204<br>175<br>103<br>398<br>221<br>298<br>244<br>254<br>334        | 5402<br>1828<br>1297<br>1025<br>1336<br>538<br>761<br>733<br>534<br>162<br>347<br>131<br>353<br>466<br>866<br>136<br>343<br>777<br>235<br>631<br>521  | - 104<br>- 397<br>- 208<br>190<br>- 392<br>- 269<br>275<br>127<br>2100<br>522<br>100<br>97<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-  | 2172<br>4221<br>803<br>535<br>855<br>992<br>907<br>1571<br>699<br>715<br>901<br>1577<br>283<br>253<br>531<br>691<br>299<br>1072<br>399<br>1073<br>3919<br>2615   | 722<br>343<br>700<br>557<br>427                           | 1130<br>1379<br>1038<br>617<br>684<br>622<br>702<br>965<br>857<br>369<br>397<br>130<br>859<br>137<br>178<br>386<br>184<br>188<br>188<br>198<br>148  | ·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·                          | 27238<br>14465<br>7386<br>5530<br>6176<br>5619<br>4523<br>4545<br>3666<br>2530<br>3568<br>1794<br>2243<br>615<br>1620<br>2358<br>1794<br>2243<br>615<br>1620<br>2358<br>1786<br>2613<br>2200<br>2657<br>1803<br>4802                 | 26<br>27<br>18<br>19<br>23<br>20<br>20<br>27<br>22<br>30<br>33<br>32<br>4<br>45<br>29<br>33<br>39<br>25<br>45<br>39<br>37<br>38<br>8<br>47   | 13625<br>8133<br>6679<br>5412<br>6610<br>6941<br>4827<br>4335<br>4103<br>2810<br>3734<br>22575<br>2214<br>3756<br>3795<br>3544<br>2694<br>2694<br>3817<br>22526<br>5799<br>4523<br>7243                                 |
|       | 1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989<br>1990<br>1991<br>1992<br>1993<br>1994<br>1995<br>1996<br>1997<br>1998<br>1999<br>2000<br>2001<br>2002<br>2003<br>2004   | 10181<br>3223<br>3305<br>1608<br>1587<br>2129<br>1067<br>770<br>905<br>544<br>486<br>783<br>204  | 3527<br>3074<br>665<br>998<br>8895<br>315<br>429<br>231<br>204<br>175<br>103<br>398<br>221<br>298<br>244<br>204<br>254<br>334 | 5402<br>1828<br>1297<br>1025<br>1336<br>538<br>761<br>733<br>534<br>162<br>347<br>131<br>353<br>46<br>86<br>136<br>343<br>777<br>235<br>631<br>521<br>602   | - 104<br>- 397<br>- 208<br>190<br>- 392<br>- 269<br>275<br>- 127<br>2100<br>522<br>100<br>97<br><br><br><br><br><br><br><br>-  | 2172<br>4221<br>803<br>535<br>855<br>992<br>907<br>1571<br>699<br>715<br>901<br>1577<br>283<br>253<br>531<br>691<br>299<br>1072<br>399<br>1033<br>919<br>2615<br>1031  | 722<br>343<br>700<br>557<br>427                           | 1130<br>1379<br>1038<br>617<br>684<br>622<br>702<br>965<br>857<br>369<br>397<br>130<br>859<br>137<br>178<br>386<br>184<br>188<br>188<br>188<br>198<br>148   | ·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·                          | 27238<br>14465<br>7386<br>5530<br>6176<br>5619<br>4523<br>4545<br>3666<br>2530<br>3568<br>1794<br>2243<br>615<br>1620<br>2358<br>1794<br>2243<br>615<br>1620<br>2358<br>1786<br>2613<br>2200<br>2657<br>1803<br>4802                 | 26<br>27<br>18<br>19<br>23<br>20<br>20<br>27<br>22<br>30<br>33<br>32<br>4<br>45<br>29<br>33<br>39<br>25<br>45<br>39<br>37<br>38<br>8<br>47<br>22   | 13625<br>8133<br>6679<br>5412<br>6610<br>6941<br>4827<br>4335<br>4103<br>2810<br>3734<br>2275<br>2214<br>3756<br>3795<br>3354<br>2257<br>2214<br>3756<br>3795<br>3354<br>269<br>4523<br>7243<br>6613                    |
|       | 1982<br>1983<br>1984<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989<br>1990<br>1991<br>1992<br>1993<br>1994<br>1995<br>1996<br>1997<br>1998<br>1999<br>2000<br>2001<br>2002<br>2003<br>2004<br>2002                         | 10181<br>3223<br>3305<br>1608<br>1587<br>2129<br>1067<br>770<br>905<br>544<br>486<br>783<br>204  | 3527<br>3074<br>665<br>998<br>8895<br>315<br>429<br>231<br>204<br>175<br>103<br>398<br>221<br>298<br>244<br>204<br>254<br>334 | 5402<br>1828<br>1297<br>1025<br>1336<br>538<br>761<br>733<br>534<br>162<br>347<br>131<br>353<br>46<br>86<br>136<br>343<br>77<br>235<br>631<br>521<br>609<br>1531                                  | - 104<br>- 3107<br>- 208<br>190<br>- 392<br>- 269<br>275<br>127<br>210<br>522<br>100<br>97<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-   | 2172<br>4221<br>803<br>535<br>855<br>992<br>907<br>1571<br>699<br>715<br>901<br>1577<br>283<br>253<br>531<br>691<br>299<br>1072<br>399<br>1072<br>399<br>1072<br>399<br>1072<br>399<br>1072  | 722<br>343<br>700<br>557<br>427                           | 1130<br>1379<br>1038<br>617<br>684<br>622<br>702<br>965<br>857<br>369<br>397<br>130<br>859<br>137<br>130<br>859<br>137<br>178<br>386<br>184<br>188<br>198<br>148<br>214<br>611                        | ·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>· | 27238<br>14465<br>7386<br>5530<br>6176<br>5619<br>4523<br>4545<br>3666<br>2530<br>3568<br>1794<br>2243<br>615<br>1620<br>2358<br>1794<br>2243<br>615<br>1620<br>2358<br>1786<br>2613<br>2200<br>2657<br>1803<br>4802<br>5576<br>5879 | 26<br>27<br>18<br>19<br>23<br>20<br>20<br>27<br>22<br>30<br>33<br>24<br>45<br>29<br>33<br>39<br>25<br>45<br>39<br>37<br>38<br>47<br>22<br>28   | 13625<br>8133<br>6679<br>5412<br>6610<br>6941<br>4827<br>4335<br>4103<br>2810<br>3734<br>22575<br>2214<br>3756<br>3795<br>3544<br>2694<br>3817<br>2526<br>5799<br>4523<br>7243<br>6613<br>7243                          |
|       | 1982<br>1983<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989<br>1990<br>1990<br>1991<br>1992<br>1993<br>1994<br>1995<br>1999<br>2000<br>2001<br>2002<br>2004<br>2004<br>2005<br>2006   | 10181<br>3223<br>3305<br>1608<br>1587<br>2129<br>1067<br>770<br>905<br>544<br>486<br>783<br>204  | 3527<br>3074<br>665<br>998<br>8895<br>315<br>429<br>231<br>204<br>175<br>103<br>398<br>221<br>298<br>244<br>204<br>254<br>334 | 5402<br>1828<br>1297<br>1025<br>1336<br>538<br>761<br>733<br>534<br>162<br>347<br>131<br>353<br>46<br>866<br>136<br>343<br>777<br>235<br>631<br>521<br>609<br>1531<br>804                         | - 104<br>- 3197<br>- 208<br>190<br>- 392<br>- 269<br>275<br>127<br>210<br>522<br>100<br>97<br>-<br>75<br>78<br>159<br>166<br>95<br>297<br>-<br>517<br>273<br>188<br>359                                    | 2172<br>4221<br>803<br>535<br>855<br>992<br>907<br>1571<br>699<br>715<br>901<br>157<br>283<br>253<br>531<br>691<br>299<br>1072<br>399<br>1072<br>399<br>1072<br>399<br>1073<br>919<br>2615<br>1031<br>1891<br>700  | 722<br>343<br>700<br>557<br>427                           | 1130<br>1379<br>1038<br>617<br>684<br>622<br>702<br>965<br>857<br>369<br>397<br>130<br>859<br>137<br>178<br>386<br>184<br>188<br>198<br>148<br>214<br>611<br>1443<br>1179                             | ·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·                          | 27238<br>14465<br>73866<br>5530<br>6176<br>5619<br>4523<br>4545<br>3666<br>2530<br>3568<br>1794<br>2243<br>615<br>1620<br>23588<br>1786<br>2613<br>2200<br>2657<br>1803<br>4802<br>5576<br>5879<br>4311                              | 26<br>27<br>18<br>19<br>23<br>20<br>20<br>27<br>22<br>30<br>33<br>24<br>45<br>29<br>33<br>39<br>25<br>45<br>39<br>37<br>38<br>47<br>22<br>28<br>32   | 13625<br>8133<br>6679<br>5412<br>6610<br>6941<br>4827<br>4103<br>2810<br>3734<br>2575<br>2214<br>3756<br>3795<br>3544<br>2694<br>3817<br>2526<br>5799<br>4523<br>7243<br>6613<br>7048                                   |
|       | 1962<br>1983<br>1984<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989<br>1990<br>1991<br>1992<br>1993<br>1994<br>1995<br>1996<br>1997<br>2000<br>2001<br>2002<br>2003<br>2004<br>2005<br>2006<br>2007                         | 10181<br>3223<br>3305<br>1608<br>1587<br>2129<br>1067<br>770<br>905<br>544<br>486<br>783<br>204  | 3527<br>3074<br>665<br>998<br>8895<br>315<br>429<br>231<br>204<br>175<br>103<br>398<br>221                                    | 5402<br>1828<br>1297<br>1025<br>1336<br>538<br>761<br>733<br>534<br>162<br>347<br>131<br>353<br>46<br>866<br>136<br>343<br>77<br>235<br>631<br>521<br>609<br>1531<br>804<br>547                   | - 104<br>- 397<br>- 208<br>190<br>- 392<br>- 269<br>- 270<br>- 210<br>- 522<br>100<br>- 97<br>- 75<br>- 78<br>159<br>166<br>- 95<br>- 297<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | 2172<br>4221<br>803<br>535<br>855<br>992<br>907<br>1571<br>699<br>715<br>901<br>157<br>283<br>253<br>531<br>691<br>299<br>1072<br>399<br>1072<br>399<br>1033<br>919<br>2615<br>1031<br>1891<br>700<br>847  | 722<br>343<br>700<br>557<br>427                           | 1130<br>1379<br>1038<br>617<br>684<br>622<br>702<br>965<br>857<br>369<br>397<br>130<br>859<br>137<br>178<br>386<br>184<br>188<br>198<br>148<br>214<br>611<br>1443<br>1179<br>333                      | ·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·                          | 27238<br>14465<br>73866<br>5530<br>6176<br>5619<br>4523<br>4545<br>3666<br>2530<br>3568<br>1794<br>2243<br>615<br>1620<br>2358<br>1786<br>2613<br>2200<br>2657<br>1803<br>4802<br>5576<br>5879<br>4311<br>3340                       | 266<br>277<br>188<br>199<br>233<br>200<br>200<br>277<br>222<br>300<br>333<br>244<br>455<br>299<br>333<br>255<br>455<br>399<br>255<br>455<br>399<br>255<br>455<br>399<br>255<br>455<br>399<br>255<br>455<br>399<br>255<br>388<br>477<br>388<br>477<br>328<br>327<br>327<br>327<br>327<br>327<br>327<br>327<br>327<br>327<br>327 | 13625<br>8133<br>6679<br>5412<br>6610<br>6941<br>4827<br>4335<br>4103<br>2810<br>3734<br>2575<br>2214<br>3756<br>3795<br>3544<br>2694<br>3817<br>2526<br>5799<br>4523<br>7243<br>6613<br>7748<br>5564<br>3568           |
|       | 1962<br>1983<br>1984<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989<br>1990<br>1991<br>1992<br>1993<br>1994<br>1995<br>1996<br>1997<br>1998<br>1999<br>2000<br>2001<br>2002<br>2003<br>2004<br>2005<br>2006<br>2007<br>2008 | 10181<br>3223<br>3305<br>1608<br>1587<br>2129<br>1067<br>770<br>905<br>544<br>486<br>783<br>204  | 3527<br>3074<br>665<br>998<br>8895<br>315<br>429<br>231<br>204<br>175<br>103<br>398<br>221<br>298<br>244<br>254<br>334        | 5402<br>1828<br>1297<br>1025<br>1336<br>538<br>761<br>733<br>534<br>162<br>347<br>131<br>353<br>46<br>86<br>136<br>343<br>77<br>235<br>631<br>521<br>609<br>1531<br>804<br>547<br>368             | - 104<br>- 397<br>- 208<br>190<br>- 392<br>- 269<br>275<br>127<br>210<br>522<br>100<br>97<br>-<br>-<br>-<br>-<br>-<br>-<br>517<br>273<br>188<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-             | 2172<br>4221<br>803<br>535<br>855<br>992<br>907<br>1571<br>699<br>715<br>901<br>157<br>283<br>253<br>531<br>691<br>299<br>1072<br>399<br>1072<br>399<br>1072<br>399<br>1072<br>399<br>1072<br>399<br>1072<br>399<br>1033<br>919<br>2615                          | 722<br>343<br>700<br>557<br>427                           | 1130<br>1379<br>1038<br>617<br>684<br>622<br>702<br>965<br>857<br>369<br>397<br>130<br>859<br>137<br>178<br>386<br>184<br>188<br>198<br>148<br>214<br>611<br>1443<br>214<br>611<br>1443<br>333<br>133 | ·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·                          | 27238<br>14465<br>7386<br>5530<br>6176<br>5619<br>4523<br>4545<br>3666<br>2530<br>25368<br>1794<br>2243<br>615<br>1620<br>2358<br>1786<br>2613<br>2200<br>2657<br>1803<br>4802<br>5576<br>5879<br>4311<br>3340<br>1480               | 26<br>27<br>18<br>19<br>23<br>20<br>20<br>20<br>27<br>22<br>30<br>33<br>24<br>45<br>29<br>33<br>39<br>25<br>45<br>39<br>25<br>45<br>37<br>7<br>22<br>28<br>8<br>47<br>22<br>28<br>32<br>37   | 13625<br>8133<br>6679<br>5412<br>6610<br>6941<br>4827<br>4335<br>4103<br>2810<br>3734<br>26575<br>2214<br>3756<br>3795<br>3544<br>2694<br>3817<br>2526<br>5799<br>4523<br>7243<br>6613<br>7048<br>5564<br>3568<br>1783  |
|       | 1962<br>1983<br>1984<br>1984<br>1985<br>1986<br>1987<br>1988<br>1989<br>1990<br>1991<br>1992<br>1993<br>1994<br>1995<br>1996<br>1997<br>1998<br>2000<br>2001<br>2002<br>2003<br>2004<br>2005<br>2007<br>2008<br>2007         | 10181<br>3223<br>3305<br>1608<br>1587<br>2129<br>1067<br>770<br>905<br>544<br>486<br>783<br>204  | 3527<br>3074<br>665<br>998<br>8895<br>315<br>429<br>231<br>204<br>175<br>103<br>398<br>221<br>298<br>244<br>254<br>334        | 5402<br>1828<br>1297<br>1025<br>1336<br>538<br>761<br>733<br>534<br>162<br>347<br>131<br>353<br>466<br>866<br>1365<br>343<br>777<br>2355<br>631<br>521<br>609<br>1531<br>804<br>547<br>368<br>375 | - 103<br>- 397<br>- 208<br>190<br>- 392<br>- 269<br>275<br>127<br>2100<br>- 522<br>100<br>- 522<br>100<br>- 97<br>- 75<br>78<br>159<br>166<br>95<br>297<br>- 517<br>273<br>188<br>359<br>- 301<br>79<br>57 | 2172<br>4221<br>803<br>535<br>855<br>992<br>907<br>1571<br>699<br>715<br>901<br>1577<br>283<br>253<br>531<br>691<br>299<br>1072<br>399<br>1072<br>399<br>1072<br>399<br>1072<br>399<br>1072<br>399<br>1072<br>2615<br>1031<br>1891<br>7700<br>847<br>7260<br>256 | 722<br>343<br>700<br>557<br>427                           | 1130<br>1379<br>1038<br>617<br>684<br>622<br>702<br>965<br>857<br>369<br>397<br>130<br>859<br>137<br>178<br>386<br>184<br>188<br>148<br>214<br>611<br>1443<br>1179<br>333<br>3133<br>43               | ·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·                          | 27238<br>14465<br>7386<br>5530<br>6176<br>5619<br>4523<br>4545<br>3666<br>2530<br>3568<br>1794<br>2243<br>615<br>1620<br>2358<br>1794<br>2243<br>615<br>1620<br>2657<br>1803<br>4802<br>5576<br>5879<br>4311<br>3340<br>1480         | 266<br>277<br>18<br>19<br>23<br>200<br>200<br>277<br>222<br>300<br>333<br>24<br>455<br>399<br>337<br>388<br>457<br>399<br>377<br>388<br>457<br>399<br>377<br>388<br>457<br>399<br>377<br>388<br>457<br>377<br>43   | 13625<br>8133<br>6679<br>5412<br>6610<br>6941<br>4827<br>4335<br>4103<br>2810<br>3734<br>22575<br>2214<br>3756<br>3795<br>3544<br>2694<br>3817<br>22526<br>5799<br>4523<br>7243<br>6613<br>7048<br>5564<br>3568<br>1783 |

| 1 | Length | 1998 | 1999 | 2000 | 2001 | 2002      | 2003 | 2004 | 2005 | 2006 | 2007 | 2008     | 2009     | 2010 |
|---|--------|------|------|------|------|-----------|------|------|------|------|------|----------|----------|------|
|   | 0.5    | 0    | 0    | 0    | 0    | 0         | 0    | 0    |      | 0    | 0    | 0        | 0        | 0    |
|   | 1.5    | 0    | 0    | 0    | 0    | 0         | 0    | 0    |      | 0    | 0    | 0        | 0        | 0    |
|   | 2.5    | 0    | 0    | 0    | 0    | 0         | 0    | 0    |      | 0    | 0    | 0        | 0        | 0    |
|   | 3.5    | 0    | 0    | 0    | 0    | 0         | 0    | 0    |      | 0    | 0    | 0        | 0        | 0    |
|   | 4.5    | 0    | 0    | 0    | 0    | 0         | 0    | 0    |      | 0    | 0    | 0        | 0        | 0    |
|   | 5.5    | 0    | 0    | 0    | 0    | 13        | 0    | 0    |      | 0    | 0    | 0        | 0        | 0    |
|   | 6.5    | 85   | 134  | 0    | 0    | 88        | 0    | 104  | 13   | 22   | 0    | 6        | 143      | 0    |
|   | 7.5    | 186  | 567  | 25   | 44   | 241       | 23   | 164  | 406  | 88   | 28   | 25       | 425      | 154  |
|   | 8.5    | 186  | 389  | 36   | 89   | 179       | 43   | 112  | 94   | 64   | 14   | 248      | 180      | 382  |
|   | 9.5    | 201  | 480  | 105  | 70   | 38        | 18   | 128  | 0    | 86   | 11   | 20       | 0        | 258  |
|   | 10.5   | 231  | 475  | 110  | 39   | 115       | 68   | 205  | 57   | 181  | 53   | 246      | 178      | 268  |
|   | 11.5   | 110  | 432  | 96   | 58   | 156       | 13   | 258  | 81   | 106  | 130  | 172      | 228      | 282  |
|   | 12.5   | 280  | 396  | 177  | 129  | 253       | 60   | 220  | 158  | 159  | 70   | 42       | 93       | 235  |
|   | 13.5   | 435  | 670  | 124  | 145  | 212       | 87   | 433  | 137  | 88   | 40   | 119      | 37       | 210  |
|   | 14.5   | 517  | 666  | 146  | 108  | 132       | 214  | 550  | 84   | 48   | 82   | 88       | 143      | 235  |
|   | 15.5   | 350  | 623  | 143  | 112  | 192       | 164  | 475  | 179  | 65   | 35   | 75       | 54       | 175  |
|   | 16.5   | 343  | 671  | 410  | 163  | 170       | 107  | 561  | 303  | 55   | 172  | 69       | 227      | 246  |
|   | 17.5   | 410  | 595  | 584  | 275  | 124       | 171  | 574  | 369  | 167  | 74   | 60       | 161      | 304  |
|   | 18.5   | 543  | 855  | 584  | 447  | 186       | 268  | 647  | 438  | 381  | 231  | 113      | 139      | 201  |
|   | 19.5   | 435  | 808  | 766  | 340  | 266       | 355  | 758  | 311  | 345  | 126  | 113      | 97       | 250  |
|   | 20.5   | 712  | 842  | 780  | 414  | 172       | 401  | 886  | 475  | 221  | 323  | 287      | 98       | 250  |
|   | 21.5   | 462  | 879  | 775  | 380  | 251       | 435  | 1128 | 509  | 519  | 349  | 80       | 173      | 231  |
|   | 22.5   | 409  | 607  | 635  | 409  | 454       | 331  | 1167 | 479  | 341  | 303  | 24       | 117      | 163  |
|   | 23.5   | 386  | 708  | 778  | 530  | 304       | 643  | 1059 | 384  | 400  | 239  | 179      | 244      | 163  |
|   | 24.5   | 350  | 513  | 488  | 360  | 317       | 635  | 1144 | 634  | 501  | 416  | 221      | 304      | 144  |
|   | 25.5   | 438  | 580  | 509  | 472  | 383       | 620  | 872  | 425  | 379  | 342  | 146      | 261      | 226  |
|   | 26.5   | 329  | 588  | 474  | 442  | 205       | 363  | 874  | 716  | 453  | 575  | 215      | 130      | 263  |
|   | 27.5   | 338  | 465  | 419  | 458  | 196       | 590  | /14  | 5/5  | 348  | 413  | 67       | 109      | 144  |
|   | 28.5   | 168  | 436  | 346  | 3/3  | 312       | 528  | 778  | 492  | 453  | 401  | 97       | 203      | 444  |
|   | 29.5   | 200  | 461  | 251  | 391  | 288       | 390  | 515  | 475  | 385  | 336  | 123      | 93       | 218  |
|   | 30.5   | 2//  | 379  | 242  | 310  | 214       | 527  | 432  | 441  | 331  | 345  | 46       | 164      | 1//  |
|   | 31.5   | 162  | 2/2  | 163  | 325  | 159       | 411  | 452  | 466  | 331  | 329  | 193      | 79       | 191  |
|   | 32.5   | 109  | 282  | 131  | 329  | 113       | 480  | 547  | 492  | 307  | 332  | 109      | 244      | 304  |
|   | 33.5   | 230  | 240  | 190  | 307  | 208       | 507  | 291  | 440  | 310  | 235  | 60<br>56 | 80<br>50 | 100  |
|   | 34.5   | 200  | 200  | 100  | 200  | 101       | 105  | 409  | 405  | 237  | 200  | 50       | 170      | 00   |
|   | 30.0   | 209  | 176  | 147  | 150  | 02        | 420  | 499  | 257  | 214  | 207  | 04<br>11 | 1/0      | 143  |
|   | 30.5   | 0/   | 107  | 121  | 190  | 92<br>121 | /13  | 200  | 330  | 172  | 107  | 0        | 20       | 207  |
|   | 20 5   | 94   | 116  | 100  | 161  | 05        | 200  | 204  | 217  | 200  | 172  | 105      | 20       | 207  |
|   | 30.5   | 133  | 1/5  | 01   | 1//  | 90<br>84  | 372  | 316  | 1/7  | 186  | 08   | 195      | 27       | 66   |
|   | 40.5   | 58   | 133  | 60   | 197  | 101       | 306  | 301  | 447  | 200  | 116  | 36       | 21       | 82   |
|   | 41.5   | 87   | 115  | 44   | 127  | 54        | 224  | 132  | 169  | 186  | 127  | 83       | 68       | 70   |
|   | 42.5   | 40   | 84   | 64   | 147  | 51        | 303  | 133  | 282  | 120  | 106  | 60       | 57       | 92   |
|   | 43.5   | 23   | 34   | 81   | 76   | 28        | 250  | 178  | 301  | 173  | 165  | 91       | 25       | 36   |
|   | 44.5   | 27   | 63   | 86   | 59   | 57        | 228  | 290  | 196  | 229  | 148  | 42       | 0        | 80   |
|   | 45.5   | 57   | 80   | 33   | 69   | 28        | 176  | 143  | 170  | 79   | 61   | 53       | 42       | 65   |
|   | 46.5   | 62   | 26   | 42   | 63   | 41        | 63   | 82   | 127  | 181  | 118  | 86       | 22       | 64   |
|   | 47.5   | 7    | 11   | 20   | 25   | 37        | 127  | 170  | 106  | 144  | 102  | 48       | 68       | 63   |
|   | 48.5   | 24   | 12   | 61   | 22   | 37        | 76   | 110  | 156  | 73   | 140  | 59       | 20       | 45   |
|   | 49.5   | 35   | 64   | 33   | 47   | 32        | 15   | 58   | 223  | 174  | 47   | 34       | 45       | 85   |
|   | 50.5   | 12   | 6    | 17   | 55   | 28        | 7    | 59   | 193  | 77   | 182  | 0        | 21       | 36   |
|   | 51.5   | 0    | 11   | 39   | 30   | 42        | 12   | 59   | 83   | 127  | 51   | 57       | 60       | 46   |
|   | 52.5   | 0    | 0    | 12   | 26   | 42        | 65   | 18   | 53   | 113  | 21   | 7        | 57       | 24   |
|   | 53.5   | 14   | 17   | 0    | 5    | 28        | 0    | 56   | 65   | 102  | 87   | 21       | 30       | 35   |
|   | 54.5   | 9    | 12   | 11   | 17   | 4         | 0    | 13   | 62   | 41   | 29   | 21       | 6        | 31   |
|   | 55.5   | 14   | 9    | 0    | 11   | 15        | 0    | 41   | 31   | 81   | 59   | 22       | 11       | 15   |
|   | 56.5   | 0    | 6    | 21   | 0    | 13        | 31   | 7    | 0    | 19   | 20   | 7        | 22       | 20   |
|   | 57.5   | 0    | 0    | 0    | 0    | 15        | 0    | 0    | 8    | 38   | 38   | 26       | 0        | 20   |
|   | 58.5   | 5    | 0    | 0    | 6    | 0         | 8    | 0    | 0    | 12   | 7    | 14       | 30       | 24   |
|   | 59.5   | 0    | 0    | 0    | 0    | 0         | 0    | 7    | 0    | 21   | 29   | 0        | 0        | 20   |
|   | 60.5   | 28   | 0    | 0    | 6    | 0         | 0    | 0    | 19   | 7    | 15   | 27       | 11       | 15   |

Table 12 Anarhichas lupus. Length composition by year ('1000), 1998-2008.

Table 13 *Anarhichas minor*, abundance ('1000) and biomass (tons) for West Greenland by stratum and total, 1982-2008. Confidence intervals (CI) are given in per cent of the stratified mean at 95% level of significance for West Greenland.

| Abundance  |   |   |   |   |  |   |   |   |   |   |  |
|--|---|---|---|---|--|---|---|---|---|---|--|
| Year   | Str1.1                                      | Str1.2                                      | Str2.1  | Str2.2  | Str3.1   | Str3.2  | Str4.1  | Str4.2  | Total   | CI  |  |
| 1982   | 376   | 211   | 392   | 155   | 116  | 14  | 309   |   | 1573  | 28  |  |
| 1983   | 197   | 31  | 125   | 3   | 115  | 48  | 1230  |   | 1749  | 35  |  |
| 1984   | 202   | 61  | 193   | 18  | 94   | 21  | 308   |   | 897   | 24  |  |
| 1985   | 200   | 103   | 107   | 3   | 27   | 63  | 104   |   | 607   | 28  |  |
| 1986   | 412   | 196   | 103   | 37  | 63   | 16  | 112   |   | 939   | 21  |  |
| 1000   | 304   | 136   | 58  | 01  | 123  | 10  | 238   | 59  | 918   | 20  |  |
| 1099   | 221   | 165   | 47  | . 12  | 150  | . 20  | 250   |   | 1002  | 20  |  |
| 1900   | 201   | 100   | 47  | 13  | 150  | 30  | 300   |   | 1002  | 29  |  |
| 1989   | 430   | 133   | 58  | 20  | 254  | •   | 101   |   | 1008  | 32  |  |
| 1990   | 119   | 246   | 39  | - 22  | 106  |   | 204   | 5   | 741   | 32  |  |
| 1991   | 356   | 164   | 31  | 41  | 58   | 8   | 87  | 47  | 792   | 26  |  |
| 1992   | 38  | 63  | 15  | 151   | 32   | 23  | 14  | 28  | 364   | 61  |  |
| 1993   | 93  | 276   | 59  | 62  | 39   | 21  | 70  |   | 620   | 43  |  |
| 1994   | 60  | 112   | 56  | 59  | 18   | 10  | 28  | 9   | 352   | 36  |  |
| 1995   |   |   |   |   | 18   | 5   | 18  | 0   | 41  | 72  |  |
| 1996   | 0   | 68  | 59  | 44  | 19   | 14  | 0   | 8   | 212   | 59  |  |
| 1997   | 111   | 61  | 17  | 38  | 61   | 19  | 39  | 75  | 421   | 39  |  |
| 1998   | 124   | 30  | 28  | 12  | 27   | 32  | 42  | 46  | 341   | 36  |  |
| 1999   | 33  | 89  | 60  | 43  | 51   | 19  | 31  |   | 326   | 37  |  |
| 2000   | 240   | 188   | 30  | 104   | 30   | 13  | 59  | 55  | 728   | 22  |  |
| 2000   | 240   | 100   | 50  | 24  | 05   | 10  | 16  | 14  | 120   | 20  |  |
| 2001   |   | •   | 110   | 31  | 00   | 0   | 40  | 14  | 200   | 30  |  |
| 2002   | •   | •   | 115   |   | 81   | 20  | 0   |   | 222   | 40  |  |
| 2003   |   |   | 68  | 38  | 31   | 9   | 14  | 8   | 168   | 49  |  |
| 2004   | 139   | 68  | 69  | 92  | 69   | 38  | 141   | 99  | 715   | 29  |  |
| 2005   |   |   | 127   | 78  | 38   | 16  | 310   | 36  | 605   | 39  |  |
| 2006   | 485   | 16  | 105   | 54  | 195  | 45  | 145   | 113   | 1013  | 35  |  |
| 2007   | 225   | 34  | 172   | 18  | 158  | 20  | 110   | 71  | 702   | 31  |  |
| 2008   | 224   |   | 35  | 6   | 48   | 29  | 150   | 56  | 548   | 43  |  |
| 2009   |   |   | 143   | 18  | 88   | 23  | 32  | 22  | 326   | 47  |  |
| 2010   | 118   | 20  | 53  | 9   | 80   | 13  | 112   | 52  | 457   | 38  |  |
|  | -   |   |   |   |  |   |   |   | -   |   |  |
| Biomass  |   |   |   |   |  |   |   |   |   |   |  |
| Year   | Str1 1                                      | Str1 2                                      | Str2 1  | Str2 2  | Str3 1   | Str3 2  | Str4 1  | Str4 2  | Total   | CL  | GLM Biomass  |
| 1092   | 2172  | 667   | 2200  | 975   | 10/  | 12  | 1901  | 0u 4.2  | Q420  | 27  | A074   |
| 1002   | 1700  | 211   | 2230  | 015   | 760  | 207   | 0011  | •   | 11750   | 26  | 4074   |
| 1903   | 000   | 211   | 1140  |   | 100  | 207   | 4004  | •   | 4500  | 30  | 4407   |
| 1984   | 902   | 214   | 1142  | 20  | 459  | 00  | 1801  | •   | 4000  | 21  | 4197   |
| 1985   | 13  | 102   | 508   | 0   | 118  | 310   | 672   | •   | 1723  | 36  | 1/58   |
| 1986   | 1048  | 314   | 535   | 58  | 337  | 39  | 933   |   | 3264  | 29  | 2871   |
| 1987   | 674   | 108   | 299   | •   | 983  | •   | 2065  | 373   | 4502  | 38  | 3975   |
| 1988   | -77   | 85  | 211   | 75  | 1171   | 117   | 3421  |   | 5003  | 66  | 4655   |
| 1989   | 574   | 34  | 184   | 44  | 1249   |   | 776   |   | 2861  | 41  | 2322   |
| 1990   | 107   | 93  | 211   | 9   | 722  |   | 1643  | 2   | 2787  | 50  | 2830   |
| 1991   | 27  | 33  | 2   | 11  | 200  |   |   |   |   |   |  |
| 1992   | 6   |   |   |   | 230  | 9   | 781   | 156   | 1309  | 73  | 1279   |
| 1993   | 0   | 9   | 0   | 10  | 25   | 9<br>4  | 781<br>36   | 156<br>34   | 1309<br>124   | 73<br>85  | 1279<br>226  |
| 1004   | 55  | 9<br>51                                     | 0<br>16   | 10<br>40  | 25<br>25<br>41   | 9<br>4<br>22  | 781<br>36<br>240  | 156<br>34   | 1309<br>124<br>465  | 73<br>85<br>68  | 1279<br>226<br>779   |
| 1994   | 55<br>28                                    | 9<br>51<br>27                               | 0<br>16<br>67   | 10<br>40<br>25  | 25<br>25<br>41<br>11   | 9<br>4<br>22<br>2   | 781<br>36<br>240<br>159   | 156<br>34<br>4  | 1309<br>124<br>465<br>323   | 73<br>85<br>68<br>73  | 1279<br>226<br>779<br>510  |
| 1994   | 55<br>28                                    | 9<br>51<br>27                               | 0<br>16<br>67   | 10<br>40<br>25  | 230<br>25<br>41<br>11<br>70  | 9<br>4<br>22<br>2<br>49   | 781<br>36<br>240<br>159<br>202  | 156<br>34<br>4  | 1309<br>124<br>465<br>323<br>321  | 73<br>85<br>68<br>73<br>91  | 1279<br>226<br>779<br>510  |
| 1994   | 55<br>28                                    | 9<br>51<br>27                               | 0<br>16<br>67   | 10<br>40<br>25  | 230<br>25<br>41<br>11<br>70  | 9<br>4<br>22<br>2<br>49   | 781<br>36<br>240<br>159<br>202  | 156<br>34<br>4<br>0   | 1309<br>124<br>465<br>323<br>321<br>287   | 73<br>85<br>68<br>73<br>91<br>71  | 1279<br>226<br>779<br>510<br>1759  |
| 1994<br>1995<br>1996   | 55<br>28<br>0                               | 9<br>51<br>27<br>147                        | 0<br>16<br>67<br>36   | 10<br>40<br>25<br>45  | 230<br>25<br>41<br>11<br>70<br>39  | 9<br>4<br>22<br>2<br>49<br>9  | 781<br>36<br>240<br>159<br>202<br>0   | 156<br>34<br>4<br>0<br>11   | 1309<br>124<br>465<br>323<br>321<br>287   | 73<br>85<br>68<br>73<br>91<br>71  | 1279<br>226<br>779<br>510<br>1759<br>1389  |
| 1994<br>1995<br>1996<br>1997   | 0<br>55<br>28<br>0<br>75                    | 9<br>51<br>27<br>147<br>9                   | 0<br>16<br>67<br>36<br>25   | 10<br>40<br>25<br>45<br>38  | 230<br>25<br>41<br>11<br>70<br>39<br>38  | 9<br>4<br>22<br>2<br>49<br>9<br>3   | 781<br>36<br>240<br>159<br>202<br>0<br>23   | 156<br>34<br>4<br>0<br>11<br>60   | 1309<br>124<br>465<br>323<br>321<br>287<br>271  | 73<br>85<br>68<br>73<br>91<br>71<br>51  | 1279<br>226<br>779<br>510<br>1759<br>1389<br>507   |
| 1994<br>1995<br>1996<br>1997<br>1998   | 0<br>55<br>28<br>0<br>75<br>24              | 9<br>51<br>27<br>147<br>9<br>3              | 0<br>16<br>67<br>36<br>25<br>113  | 10<br>40<br>25<br>45<br>38<br>30  | 230<br>25<br>41<br>11<br>70<br>39<br>38<br>122   | 9<br>4<br>22<br>2<br>49<br>9<br>3<br>4  | 781<br>36<br>240<br>159<br>202<br>0<br>23<br>274  | 156<br>34<br>4<br>0<br>11<br>60<br>51   | 1309<br>124<br>465<br>323<br>321<br>287<br>271<br>621   | 73<br>85<br>68<br>73<br>91<br>71<br>51<br>65  | 1279<br>226<br>779<br>510<br>1759<br>1389<br>507<br>875  |
| 1994<br>1995<br>1996<br>1997<br>1998<br>1999   | 0<br>55<br>28<br>0<br>75<br>24<br>34        | 9<br>51<br>27<br>147<br>9<br>3<br>50        | 0<br>16<br>67<br>36<br>25<br>113<br>150   | 10<br>40<br>25<br>45<br>38<br>30<br>33  | 230<br>25<br>41<br>11<br>70<br>39<br>38<br>122<br>113  | 9<br>4<br>22<br>49<br>9<br>3<br>4<br>13   | 781<br>36<br>240<br>159<br>202<br>0<br>23<br>274<br>166   | 156<br>34<br>4<br>0<br>11<br>60<br>51   | 1309<br>124<br>465<br>323<br>321<br>287<br>271<br>621<br>559  | 73<br>85<br>68<br>73<br>91<br>71<br>51<br>65<br>44  | 1279<br>226<br>779<br>510<br>1759<br>1389<br>507<br>875<br>868   |
| 1994<br>1995<br>1996<br>1997<br>1998<br>1999<br>2000   | 0<br>55<br>28<br>0<br>75<br>24<br>34<br>266 | 9<br>51<br>27<br>147<br>9<br>3<br>50<br>112 | 0<br>16<br>67<br>36<br>25<br>113<br>150<br>102  | 10<br>40<br>25<br>45<br>38<br>30<br>33<br>208   | 230<br>25<br>41<br>11<br>70<br>39<br>38<br>122<br>113<br>240   | 9<br>4<br>22<br>2<br>49<br>9<br>3<br>4<br>13<br>97  | 781<br>36<br>240<br>159<br>202<br>0<br>23<br>274<br>166<br>277  | 156<br>34<br>4<br>0<br>11<br>60<br>51<br>234  | 1309<br>124<br>465<br>323<br>321<br>287<br>271<br>621<br>559<br>1536  | 73<br>85<br>68<br>73<br>91<br>71<br>51<br>65<br>44<br>40  | 1279<br>226<br>779<br>510<br>1759<br>1389<br>507<br>875<br>868<br>1463   |
| 1994<br>1995<br>1996<br>1997<br>1998<br>1999<br>2000<br>2001   | 0<br>55<br>28<br>0<br>75<br>24<br>34<br>266 | 9<br>51<br>27<br>147<br>9<br>3<br>50<br>112 | 0<br>16<br>67<br>36<br>25<br>113<br>150<br>102<br>172   | 10<br>40<br>25<br>45<br>38<br>30<br>33<br>208<br>70   | 230<br>25<br>41<br>11<br>70<br>39<br>38<br>122<br>113<br>240<br>499  | 9<br>4<br>22<br>49<br>9<br>3<br>4<br>13<br>97<br>43   | 781<br>36<br>240<br>159<br>202<br>0<br>23<br>274<br>166<br>277<br>241   | 156<br>34<br>4<br>0<br>11<br>60<br>51<br>234<br>60  | 1309<br>124<br>465<br>323<br>321<br>287<br>271<br>621<br>559<br>1536<br>1085  | 73<br>85<br>68<br>73<br>91<br>71<br>51<br>65<br>44<br>40<br>35  | 1279<br>226<br>779<br>510<br>1759<br>1389<br>507<br>875<br>868<br>1463<br>2174   |
| 1994<br>1995<br>1996<br>1997<br>1998<br>1999<br>2000<br>2001<br>2001   | 0<br>55<br>28<br>0<br>75<br>24<br>34<br>266 | 9<br>51<br>27<br>147<br>9<br>3<br>50<br>112 | 0<br>16<br>67<br>25<br>113<br>150<br>102<br>172<br>218  | 10<br>40<br>25<br>45<br>38<br>30<br>33<br>208<br>70   | 250<br>255<br>41<br>11<br>70<br>399<br>388<br>122<br>113<br>240<br>499<br>611  | 9<br>4<br>22<br>49<br>9<br>3<br>4<br>13<br>97<br>43<br>128  | 781<br>36<br>240<br>159<br>202<br>0<br>23<br>274<br>166<br>277<br>241<br>0  | 156<br>34<br>4<br>0<br>11<br>60<br>51<br>234<br>60  | 1309<br>124<br>465<br>323<br>321<br>287<br>271<br>621<br>559<br>1536<br>1085<br>957   | 73<br>85<br>68<br>73<br>91<br>71<br>51<br>65<br>44<br>40<br>35<br>55  | 1279<br>226<br>779<br>510<br>1759<br>1389<br>507<br>875<br>868<br>1463<br>2174<br>2443   |
| 1994<br>1995<br>1996<br>1997<br>1998<br>1999<br>2000<br>2001<br>2001<br>2002<br>2003   | 0<br>55<br>28<br>0<br>75<br>24<br>34<br>266 | 9<br>51<br>27<br>147<br>9<br>3<br>50<br>112 | 0<br>16<br>67<br>25<br>113<br>150<br>102<br>172<br>218<br>263   | 10<br>40<br>25<br>45<br>38<br>30<br>33<br>208<br>70<br>77   | 250<br>255<br>41<br>11<br>70<br>399<br>388<br>122<br>1113<br>240<br>499<br>611<br>92   | 9<br>4<br>22<br>49<br>9<br>3<br>4<br>13<br>97<br>43<br>128<br>61  | 781<br>36<br>240<br>159<br>202<br>0<br>23<br>274<br>166<br>277<br>241<br>0<br>51  | 156<br>34<br>4<br>0<br>11<br>60<br>51<br>234<br>60<br>123                                       | 1309<br>124<br>465<br>323<br>321<br>287<br>271<br>621<br>559<br>1536<br>1085<br>957<br>667  | 73<br>85<br>68<br>73<br>91<br>71<br>51<br>65<br>44<br>40<br>35<br>55<br>53  | 1279<br>226<br>779<br>510<br>1759<br>1389<br>507<br>875<br>868<br>1463<br>2174<br>2443<br>1871   |
| 1994<br>1995<br>1996<br>1997<br>1998<br>1999<br>2000<br>2001<br>2002<br>2003<br>2003   | 0<br>55<br>28<br>0<br>75<br>24<br>34<br>266 | 9<br>51<br>27<br>147<br>9<br>3<br>50<br>117 | 0<br>16<br>67<br>36<br>25<br>113<br>150<br>102<br>172<br>218<br>263<br>306                                  | 10<br>40<br>25<br>45<br>38<br>30<br>33<br>208<br>70<br>77<br>212  | 230<br>25<br>41<br>11<br>70<br>39<br>38<br>122<br>113<br>240<br>499<br>611<br>92<br>490                                      | 9<br>4<br>22<br>49<br>9<br>3<br>4<br>13<br>97<br>43<br>128<br>61<br>281   | 781<br>36<br>240<br>159<br>202<br>0<br>23<br>274<br>166<br>277<br>241<br>0<br>51  | 156<br>34<br>4<br>0<br>11<br>60<br>51<br>234<br>60<br>123<br>648                                | 1309<br>124<br>465<br>323<br>321<br>287<br>271<br>621<br>559<br>1536<br>1085<br>957<br>667<br>2916  | 73<br>85<br>68<br>73<br>91<br>71<br>51<br>65<br>44<br>40<br>35<br>55<br>53<br>40  | 1279<br>226<br>779<br>510<br>1759<br>1389<br>507<br>875<br>868<br>1463<br>2174<br>2443<br>1871<br>2551                                 |
| 1994<br>1995<br>1996<br>1997<br>1998<br>1999<br>2000<br>2001<br>2002<br>2003<br>2003<br>2004<br>2005                         | 0<br>75<br>24<br>34<br>266                  | 9<br>51<br>27<br>147<br>9<br>3<br>50<br>117 | 0<br>16<br>67<br>36<br>25<br>113<br>150<br>102<br>172<br>218<br>263<br>306<br>448                           | 10<br>40<br>25<br>45<br>38<br>30<br>33<br>208<br>70<br>77<br>212<br>358                                     | 230<br>25<br>41<br>11<br>70<br>39<br>38<br>122<br>113<br>240<br>499<br>611<br>92<br>490<br>373                               | 9<br>4<br>22<br>49<br>9<br>3<br>4<br>13<br>97<br>43<br>128<br>61<br>281<br>169  | 781<br>36<br>240<br>159<br>202<br>0<br>23<br>274<br>166<br>277<br>241<br>0<br>51<br>819                                       | 156<br>34<br>4<br>0<br>11<br>60<br>51<br>234<br>60<br>123<br>648<br>250                         | 1309<br>124<br>465<br>323<br>321<br>287<br>271<br>621<br>559<br>1536<br>1085<br>957<br>667<br>2916<br>3309                                | 73<br>85<br>68<br>73<br>91<br>71<br>51<br>65<br>44<br>40<br>35<br>55<br>53<br>40<br>41  | 1279<br>226<br>779<br>510<br>1759<br>1389<br>507<br>875<br>868<br>1463<br>2174<br>2443<br>1871<br>2551<br>4547                         |
| 1994<br>1995<br>1996<br>1997<br>1998<br>1999<br>2000<br>2001<br>2002<br>2003<br>2004<br>2005<br>2006                         | 55<br>28<br>0<br>75<br>24<br>34<br>266      | 9<br>51<br>27<br>147<br>9<br>3<br>50<br>112 | 0<br>16<br>67<br>36<br>25<br>113<br>150<br>102<br>172<br>218<br>263<br>306<br>448<br>304                    | 10<br>40<br>25<br>45<br>38<br>30<br>33<br>208<br>70<br>77<br>212<br>358<br>222                              | 230<br>25<br>41<br>11<br>70<br>39<br>38<br>122<br>113<br>240<br>499<br>611<br>92<br>490<br>373<br>946                        | 9<br>4<br>22<br>49<br>9<br>3<br>4<br>13<br>97<br>43<br>128<br>61<br>281<br>169<br>244   | 781<br>36<br>240<br>159<br>202<br>0<br>23<br>274<br>166<br>277<br>241<br>0<br>51<br>819<br>1711<br>451                        | 156<br>34<br>0<br>111<br>60<br>51<br>234<br>60<br>123<br>648<br>250<br>645                      | 1309<br>124<br>465<br>323<br>321<br>287<br>271<br>621<br>559<br>1536<br>1085<br>957<br>667<br>2916<br>3309<br>3647                        | 73<br>85<br>68<br>73<br>91<br>71<br>51<br>65<br>54<br>40<br>35<br>55<br>53<br>40<br>41<br>36  | 1279<br>226<br>779<br>510<br>1759<br>1389<br>507<br>875<br>868<br>1463<br>2174<br>2443<br>1871<br>2551<br>4547<br>4586                 |
| 1994<br>1995<br>1996<br>1997<br>1998<br>1999<br>2000<br>2001<br>2002<br>2003<br>2004<br>2005<br>2006<br>2007                 | 6<br>55<br>28<br>0<br>75<br>24<br>34<br>266 | 9<br>51<br>27<br>147<br>9<br>3<br>50<br>112 | 0<br>16<br>67<br>36<br>25<br>113<br>150<br>102<br>172<br>218<br>263<br>306<br>448<br>304                    | 10<br>40<br>25<br>45<br>38<br>30<br>33<br>208<br>70<br>77<br>212<br>358<br>222<br>15                        | 250<br>25<br>41<br>11<br>70<br>39<br>38<br>122<br>113<br>240<br>499<br>611<br>92<br>490<br>373<br>946<br>1158                | 9<br>4<br>22<br>49<br>9<br>3<br>4<br>13<br>97<br>43<br>128<br>61<br>281<br>169<br>244   | 781<br>36<br>240<br>159<br>202<br>0<br>23<br>274<br>166<br>277<br>241<br>0<br>51<br>819<br>1711<br>451                        | 156<br>34<br>0<br>111<br>60<br>51<br>234<br>60<br>123<br>648<br>250<br>645<br>560               | 1309<br>124<br>465<br>323<br>321<br>287<br>271<br>621<br>559<br>1536<br>1085<br>957<br>667<br>2916<br>3309<br>3647<br>524                 | 73<br>85<br>68<br>73<br>91<br>71<br>51<br>65<br>55<br>53<br>40<br>41<br>36<br>35  | 1279<br>226<br>779<br>510<br>1759<br>1389<br>507<br>875<br>868<br>1463<br>2174<br>2443<br>1871<br>2551<br>4547<br>4586<br>4545         |
| 1994<br>1995<br>1996<br>1997<br>1998<br>1999<br>2000<br>2001<br>2002<br>2003<br>2004<br>2005<br>2006<br>2007<br>2008         | 6<br>55<br>28<br>0<br>75<br>24<br>34<br>266 | 9<br>51<br>27<br>147<br>9<br>3<br>50<br>112 | 0<br>16<br>67<br>36<br>25<br>113<br>150<br>102<br>172<br>218<br>263<br>306<br>448<br>304<br>952<br>40       | 11<br>10<br>40<br>25<br>45<br>38<br>30<br>33<br>208<br>70<br>77<br>212<br>358<br>222<br>15<br>1             | 230<br>25<br>41<br>17<br>70<br>39<br>38<br>122<br>113<br>240<br>499<br>611<br>92<br>490<br>373<br>946<br>1158<br>360         | 9<br>4<br>22<br>49<br>9<br>3<br>4<br>13<br>97<br>43<br>128<br>61<br>281<br>169<br>244<br>9<br>244<br>3<br>9265                  | 781<br>36<br>240<br>159<br>202<br>0<br>33<br>274<br>166<br>277<br>241<br>0<br>51<br>819<br>1711<br>451<br>1216                | 156<br>34<br>0<br>111<br>600<br>511<br>234<br>600<br>123<br>648<br>250<br>645<br>550<br>543     | 1309<br>124<br>465<br>323<br>321<br>287<br>271<br>621<br>559<br>559<br>1536<br>1085<br>957<br>667<br>2916<br>3309<br>3647<br>5234<br>2243 | 73<br>85<br>68<br>73<br>91<br>71<br>51<br>65<br>44<br>40<br>35<br>55<br>53<br>40<br>41<br>36<br>35<br>40                              | 1279<br>226<br>779<br>510<br>1759<br>1389<br>507<br>875<br>868<br>1463<br>2174<br>2443<br>1871<br>2551<br>4547<br>4586<br>4545<br>3254 |
| 1994<br>1995<br>1996<br>1997<br>1998<br>1999<br>2000<br>2001<br>2002<br>2003<br>2004<br>2005<br>2006<br>2007<br>2008<br>2007 | 0<br>55<br>28<br>0<br>75<br>24<br>34<br>266 | 9<br>51<br>27<br>147<br>9<br>3<br>50<br>112 | 0<br>16<br>67<br>36<br>25<br>113<br>150<br>102<br>172<br>218<br>263<br>306<br>448<br>304<br>952<br>499      | 11<br>10<br>40<br>25<br>45<br>38<br>30<br>33<br>208<br>70<br>77<br>212<br>358<br>222<br>15<br>1<br>176      | 230<br>25<br>41<br>111<br>70<br>39<br>38<br>122<br>113<br>240<br>499<br>611<br>92<br>490<br>373<br>946<br>1158<br>369<br>514 | 9<br>4<br>22<br>49<br>9<br>3<br>3<br>4<br>13<br>97<br>43<br>128<br>61<br>281<br>169<br>244<br>93<br>2655                        | 781<br>36<br>240<br>159<br>202<br>0<br>23<br>274<br>166<br>277<br>241<br>0<br>51<br>819<br>1711<br>451<br>1216<br>1296        | 156<br>34<br>0<br>111<br>60<br>51<br>234<br>600<br>123<br>648<br>250<br>645<br>569<br>5130      | 1309<br>124<br>465<br>323<br>321<br>287<br>271<br>621<br>559<br>1536<br>1085<br>957<br>667<br>2916<br>3309<br>3647<br>5234<br>3243        | 73<br>85<br>68<br>73<br>91<br>71<br>51<br>65<br>55<br>53<br>40<br>41<br>35<br>55<br>53<br>40<br>41<br>36<br>35                        | 1279<br>226<br>779<br>510<br>1759<br>1389<br>507<br>875<br>868<br>1463<br>2174<br>2443<br>1871<br>2551<br>4547<br>4586<br>4545<br>3554 |
| 1994<br>1995<br>1996<br>1997<br>1998<br>1999<br>2000<br>2001<br>2002<br>2003<br>2004<br>2005<br>2006<br>2007<br>2008<br>2009 | 6<br>55<br>28<br>0<br>75<br>24<br>34<br>266 | 9<br>51<br>27<br>147<br>9<br>3<br>50<br>112 | 0<br>16<br>67<br>36<br>25<br>113<br>150<br>102<br>172<br>218<br>263<br>306<br>448<br>304<br>952<br>49<br>49 | 10<br>10<br>40<br>25<br>45<br>38<br>30<br>33<br>208<br>70<br>77<br>212<br>358<br>222<br>15<br>1<br>176<br>6 | 230<br>25<br>41<br>11<br>70<br>39<br>38<br>122<br>113<br>240<br>499<br>611<br>92<br>490<br>373<br>946<br>1158<br>369<br>514  | 9<br>4<br>22<br>4<br>9<br>9<br>3<br>4<br>13<br>97<br>43<br>128<br>61<br>281<br>61<br>281<br>169<br>244<br>93<br>265<br>5<br>125 | 781<br>36<br>240<br>159<br>202<br>0<br>23<br>274<br>166<br>277<br>241<br>0<br>51<br>819<br>1711<br>451<br>1216<br>1294<br>262 | 156<br>34<br>0<br>111<br>60<br>51<br>234<br>60<br>123<br>648<br>250<br>645<br>569<br>513<br>129 | 1309<br>124<br>465<br>323<br>321<br>287<br>271<br>621<br>559<br>1536<br>1085<br>957<br>667<br>2916<br>3309<br>3647<br>5234<br>3243        | 73<br>85<br>68<br>73<br>91<br>71<br>51<br>65<br>55<br>53<br>40<br>41<br>35<br>55<br>53<br>40<br>41<br>36<br>35<br>48<br>54<br>8<br>54 | 1279<br>226<br>779<br>510<br>1759<br>1389<br>507<br>875<br>868<br>1463<br>2174<br>2443<br>1871<br>2251<br>4547<br>4586<br>4545<br>3354 |

| Lengt<br>h   | 1998 | 1999 | 2000     | 2001     | 2002 | 2003 | 2004    | 2005 | 2006 | 2007 | 2008 | 2009 | 2010    |
|--------------|------|------|----------|----------|------|------|---------|------|------|------|------|------|---------|
| 10.5         | 0    | 0    | 12       | 0        | 0    | 0    | 0       | 0    | 0    | 0    | 0    | 0    | 0       |
| 11.5         | 0    | 6    | 0        | 0        | 0    | 0    | 0       | 0    | 42   | 0    | 0    | 0    | 0       |
| 12.5         | 0    | 0    | 20       | 0        | 0    | 0    | 0       | 0    | 0    | 0    | 0    | 0    | 0       |
| 13.5         | 0    | 0    | 52       | 0        | 0    | 0    | 0       | 0    | 0    | 0    | 0    | 0    | 0       |
| 14.5         | 43   | 0    | 69       | 0        | 0    | 0    | 0       | 0    | 0    | 13   | 0    | 0    | 0       |
| 15.5         | 0    | 12   | 20<br>12 | 0        | 0    | 0    | 0       | 0    | 0    | 0    | 0    | 0    | 0       |
| 10.5         | 0    | 0    | 12       | 0        | 5    | 0    | 0       | 0    | 0    | 0    | 21   | 0    | 0       |
| 18.5         | 0    | 6    | 27       | 0        | 0    | 0    | 0       | 0    | 0    | 0    | 21   | 0    | 0       |
| 19.5         | 5    | 6    | 0        | 0        | 0    | 0    | 0       | Ő    | 0    | 0    | Ő    | 0    | 0       |
| 20.5         | 11   | 0    | 0        | 0        | 0    | 0    | 0       | 0    | 0    | 0    | 0    | 0    | 0       |
| 21.5         | 7    | 5    | 0        | 0        | 13   | 0    | 29      | 0    | 0    | 0    | 0    | 0    | 0       |
| 22.5         | 0    | 0    | 0        | 0        | 0    | 0    | 4       | 0    | 0    | 0    | 0    | 0    | 0       |
| 23.5         | 5    | 0    | 6        | 0        | 0    | 6    | 0       | 0    | 42   | 8    | 0    | 0    | 0       |
| 24.5         | 12   | 0    | 0        | 9        | 0    | 0    | 0       | 0    | 85   | 0    | 0    | 14   | 0       |
| 25.5         | 7    | 0    | 35       | 0        | 0    | 0    | 39      | 0    | 42   | 0    | 112  | 0    | 0       |
| 26.5         | 0    | 0    | 11       | 5        | 13   | 0    | 1       | 0    | 0    | 0    | 0    | 0    | 0       |
| 27.5         | 14   | 12   | 0<br>25  | 0        | 0    | 8    | 10      | 0    | 0    | 0    | 0    | 20   | 0<br>60 |
| 20.5         | 0    | 12   | 0        | 0        | 0    | 0    | 4       | 11   | 0    | 0    | 0    | 0    | 00      |
| 30.5         | 5    | 0    | 0        | 6        | 0    | 0    | 4       | 0    | 0    | 0    | 0    | 0    | 0       |
| 31.5         | Ő    | 12   | Õ        | Õ        | 0    | Õ    | 4       | Õ    | 42   | Õ    | Õ    | Ő    | Õ       |
| 32.5         | 0    | 5    | 6        | 0        | 13   | 0    | 0       | 0    | 0    | 0    | 0    | 0    | 0       |
| 33.5         | 0    | 11   | 0        | 0        | 0    | 0    | 6       | 0    | 0    | 0    | 0    | 0    | 0       |
| 34.5         | 0    | 0    | 0        | 0        | 0    | 0    | 0       | 0    | 0    | 0    | 0    | 0    | 0       |
| 35.5         | 0    | 5    | 0        | 0        | 0    | 0    | 0       | 0    | 0    | 0    | 0    | 0    | 0       |
| 36.5         | 0    | 0    | 0        | 0        | 13   | 0    | 0       | 7    | 13   | 0    | 0    | 0    | 0       |
| 37.5         | 0    | 5    | 0        | 0        | 0    | 0    | 10      | 0    | 8    | 0    | 0    | 0    | 0       |
| 30.5<br>30.5 | 0    | 5    | 0        | 0        | 0    | 0    | 0       | 0    | 0    | 0    | 0    | 0    | 0       |
| 40.5         | 0    | 6    | 7        | 0        | 0    | 0    | 18      | 0    | 0    | 0    | 0    | 0    | 0       |
| 41.5         | 0    | 12   | 0        | Ő        | 0    | Ő    | 33      | Ő    | Ő    | Ő    | Ő    | 0    | Ő       |
| 42.5         | 15   | 0    | 0        | 5        | 13   | 0    | 4       | 0    | 0    | 0    | 0    | 0    | 0       |
| 43.5         | 29   | 0    | 6        | 0        | 0    | 0    | 0       | 0    | 12   | 0    | 0    | 0    | 0       |
| 44.5         | 0    | 0    | 0        | 6        | 0    | 6    | 0       | 0    | 0    | 0    | 0    | 0    | 0       |
| 45.5         | 0    | 0    | 0        | 0        | 0    | 6    | 4       | 10   | 0    | 0    | 0    | 0    | 0       |
| 46.5         | 0    | 12   | 0        | 0        | 0    | 0    | 0       | 20   | 10   | 0    | 0    | 0    | 10      |
| 47.5         | 0    | 6    | 0        | 0        | 0    | 0    | 0       | 10   | 27   | 1    | 0    | 0    | 0       |
| 48.5         | 0    | 12   | 0        | 0        | 0    | 12   | 0<br>51 | 34   | 21   | 0    | 0    | 0    | 0       |
| 49.5<br>50.5 | 0    | 45   | 12       | 0        | 13   | 13   | 14      | 34   | 21   | 0    | 0    | 0    | 0       |
| 51.5         | 0    | 5    | 0        | 0        | 0    | 0    | 10      | 16   | 12   | 0    | 0    | 0    | 0       |
| 52.5         | Õ    | 0    | Õ        | Õ        | 0    | Õ    | 19      | 0    | 13   | Õ    | Õ    | Ő    | Õ       |
| 53.5         | 0    | 5    | 0        | 0        | 0    | 10   | 0       | 0    | 4    | 13   | 0    | 0    | 0       |
| 54.5         | 0    | 0    | 0        | 0        | 0    | 0    | 0       | 0    | 19   | 8    | 0    | 0    | 20      |
| 55.5         | 0    | 0    | 21       | 0        | 0    | 0    | 0       | 0    | 37   | 82   | 7    | 0    | 0       |
| 56.5         | 9    | 12   | 6        | 0        | 0    | 0    | 44      | 10   | 0    | 0    | 0    | 0    | 9       |
| 57.5         | 0    | 5    | 6        | 0        | 0    | 10   | 8       | 0    | 13   | 0    | 0    | 0    | 0       |
| 50.5<br>50 5 | 10   | 5    | 0        | 5<br>10  | 0    | 0    | 4       | 0    | 0    | 0    | 0    | 0    | 11      |
| 60 5         | 10   | 0    | 0        | 12<br>12 | 0    | 0    | 0       | 0    | 0    | 0    | 0    | 0    | 0       |
| 61.5         | 15   | 0    | 0        | 0        | 0    | 0    | 8       | 25   | 19   | 13   | 4    | 0    | 4       |

Table 14 Anarhichas minor. Length composition by year ('1000), 1998-2010.

| 62.5         | 7  | 5  | 6  | 0  | 0  | 13     | 8         | 0  | 0        | 0  | 0   | 0  | 0  |
|--------------|----|----|----|----|----|--------|-----------|----|----------|----|-----|----|----|
| 63.5         | 0  | 0  | 6  | 0  | 0  | 0      | 8         | 0  | 26       | 6  | 0   | 0  | 0  |
| 64.5         | 0  | 0  | 0  | 0  | 0  | 0      | 4         | 0  | 8        | 12 | 0   | 0  | 0  |
| 65.5         | 9  | 0  | 0  | 6  | 0  | 0      | 0         | 17 | 4        | 19 | 0   | 0  | 0  |
| 66.5         | 0  | 12 | 0  | 6  | 0  | 13     | 0         | 0  | 21       | 14 | 0   | 0  | 0  |
| 67.5         | 0  | 0  | 5  | 0  | 0  | 0      | 0         | 5  | 0        | 0  | 0   | 0  | 0  |
| 68.5         | 0  | 6  | 0  | 11 | 0  | 0      | 0         | 10 | 10       | 0  | 14  | 0  | 0  |
| 69.5<br>70 F | 10 | 0  | 12 | 6  | 14 | 0      | 0         | 0  | 30       | 11 | 14  | 6  | 0  |
| 70.5         | 0  | 0  | 12 | 12 | 0  | 0      | 0         | 25 | 24       | 12 | 0   | 22 | 0  |
| 71.5         | 0  | 0  | 0  | 6  | 0  | 15     | 11        | 15 | 4        | 25 | 0   | 0  | 4  |
| 72.5         | 0  | 6  | 29 | 0  | 0  | 0      | 0         | 10 | 10       | 10 | 23  | 0  | 11 |
| 73.5         | 0  | 6  | 10 | 6  | 0  | 0      | 0         | 25 | 0        | 12 | 0   | 0  | 10 |
| 74.5<br>75 5 | 0  | 0  | 12 | 9  | 9  | 10     | 4         | 30 | 13       | 12 | 10  | 14 | 13 |
| 70.0<br>76 F | 0  | 0  | 11 | 0  | 0  | 10     | 4         | 10 | 0        | 13 | 10  | 0  | 0  |
| 70.0<br>77 5 | 0  | 11 | 11 | 0  | 12 | 0      | 15        | 10 | 10       | 0  | 0   | 0  | 0  |
| 70 E         | 0  | 6  | 42 | 9  | 13 | 12     | 10        | 5  | 10       | 12 | 0   | 0  | 0  |
| 70.0         | 0  | 0  | 0  | 0  | 0  | 13     | Z I<br>11 | 10 | 10       | 12 | 0   | 0  | 0  |
| 79.0<br>00 E | 0  | 0  | 0  | 0  | 0  | 0      | 7         | 10 | 27       | 12 | 20  | 0  | 0  |
| 00.0<br>91.5 | 0  | 0  | 0  | 6  | 0  | 0      | 11        | 40 | 27<br>11 | 12 | 30  | 6  | 11 |
| 82.5         | 0  | 0  | 5  | 0  | 0  | 0      | 0         | 49 | 11       | 0  | 34  | 0  | 0  |
| 02.0<br>83.5 | 0  | 6  | 26 | 0  | 0  | 0      | 10        | 25 | 42       | 0  | 112 | 20 | 10 |
| 84.5         | 0  | 0  | 20 | 0  | 0  | 0      | 19        | 25 | 11       | 17 | 0   | 20 | 0  |
| 85.5         | 10 | 0  | 6  | 0  | 0  | 1      | 0         | 0  | 10       | 0  | 0   | 0  | 12 |
| 86.5         | 0  | 0  | 0  | 6  | 0  | -<br>- | 0         | 5  | 0        | 11 | 0   | 20 | 0  |
| 87.5         | 0  | 0  | 0  | 17 | 0  | 0      | 10        | 0  | 24       | 0  | 15  | 20 | 0  |
| 88.5         | Ő  | 0  | 6  | 5  | 0  | 4      | 8         | Ő  | 17       | 24 | 0   | Ő  | Ő  |
| 89.5         | Õ  | õ  | Õ  | 6  | Õ  | 0      | Õ         | Ő  | 8        | 6  | Ő   | 51 | 10 |
| 90.5         | Õ  | 11 | Õ  | Õ  | 14 | Õ      | 8         | Õ  | 10       | 13 | 0   | 0  | 24 |
| 91.5         | 0  | 0  | 7  | 0  | 14 | 6      | 7         | 10 | 21       | 91 | 0   | 22 | 22 |
| 92.5         | 0  | 0  | 12 | 0  | 0  | 0      | 4         | 7  | 0        | 11 | 0   | 0  | 0  |
| 93.5         | Ō  | 0  | 6  | Ō  | Ō  | Ō      | 6         | 25 | 7        | 12 | Ō   | Ō  | Ō  |
| 94.5         | 9  | 0  | 6  | 23 | 19 | 0      | 27        | 25 | 0        | 7  | 7   | 32 | 28 |
| 95.5         | 0  | 0  | 0  | 12 | 0  | 13     | 19        | 0  | 105      | 25 | 8   | 0  | 0  |
| 96.5         | 0  | 0  | 0  | 0  | 0  | 0      | 10        | 15 | 10       | 18 | 0   | 0  | 10 |
| 97.5         | 0  | 0  | 0  | 0  | 14 | 0      | 8         | 0  | 0        | 7  | 0   | 0  | 0  |
| 98.5         | 0  | 0  | 0  | 0  | 5  | 0      | 8         | 0  | 7        | 0  | 37  | 6  | 10 |
| 99.5         | 0  | 0  | 0  | 0  | 0  | 0      | 4         | 0  | 0        | 15 | 0   | 15 | 0  |
| 100.5        | 0  | 0  | 0  | 0  | 0  | 0      | 0         | 0  | 0        | 0  | 7   | 0  | 10 |

Table 15 *Raja radiata*, abundance (1 000) and biomass (tons) for West Greenland by stratum and total, 1982-2010. Confidence intervals (CI) are given in per cent of the stratified mean at 95% level of significance.

| Abunc | lance                        |          |        |                |                |                |          |         |        |            |                |             |
|-------|------------------------------|----------|--------|----------------|----------------|----------------|----------|---------|--------|------------|----------------|-------------|
| Year  |                              | Str1.1   | Str1.2 | Str2.1         | Str2.2         | Str3.1         | Str3.2   | Str4.1  | Str4.2 | Total      | CI             |             |
|       | 1982                         | 5417     | 1930   | 1547           | 468            | 516            | 122      | 152     |        | 10152      | 28             |             |
|       | 1983                         | 3764     | 587    | 741            | 303            | 691            | 28       | 57      |        | 6171       | 54             |             |
|       | 1984                         | 3235     | 1862   | 802            | 542            | 152            | 482      | 163     |        | 7238       | 34             |             |
|       | 1985                         | 2082     | 2133   | 1801           | 721            | 373            | 58       | 245     |        | 7413       | 32             |             |
|       | 1986                         | 1890     | 2604   | 717            | 316            | 266            | 121      | 186     | -      | 6100       | 36             |             |
|       | 1987                         | 1719     | 341    | 597            | 010            | 275            | 121      | 59      | 28     | 3010       | 22             |             |
|       | 1000                         | 2006     | 1046   | 11/5           | . 750          | 2/0            | . 12     | 70      | 20     | 7217       | 20             |             |
|       | 1900                         | 12262    | 2100   | 1145           | 709            | 540            | 43       | 122     |        | 21006      | 30             |             |
|       | 1909                         | 13203    | 2199   | 4141           | 120            | 043            | •        | 132     |        | 21000      | 20             |             |
|       | 1990                         | 9744     | 2983   | 2673           | 690            | 333            |          | 668     | 385    | 1/4/6      | 36             |             |
|       | 1991                         | 2173     | 503    | 1273           | 289            | 697            | 163      | 153     | 64     | 5315       | 22             |             |
|       | 1992                         | 4135     | 718    | 3414           | 1652           | 608            | 683      | 205     | 57     | 11472      | 38             |             |
|       | 1993                         | 2749     | 422    | 798            | 382            | 244            | 353      | 116     |        | 5064       | 27             |             |
|       | 1994                         | 2327     | 384    | 823            | 254            | 227            | 76       | 394     | 16     | 4501       | 31             |             |
|       | 1995                         |          |        |                |                | 181            | 282      | 106     | 26     | 595        | 74             |             |
|       | 1996                         | 1359     | 154    | 463            | 85             | 122            | 125      | 59      | 34     | 2401       | 24             |             |
|       | 1997                         | 4862     | 507    | 852            | 45             | 123            | 135      | 186     | 0      | 6710       | 31             |             |
|       | 1998                         | 1789     | 581    | 502            | 212            | 271            | 55       | 51      | 15     | 3476       | 24             |             |
|       | 1999                         | 2268     | 213    | 730            | 211            | 301            | 216      | 236     |        | 4175       | 27             |             |
|       | 2000                         | 767      | 215    | 531            | 1013           | 271            | 144      | 251     | 18     | 3210       | 42             |             |
|       | 2001                         |          |        | 524            | 107            | 93             | 142      | 702     | 32     | 1600       | 39             |             |
|       | 2002                         |          |        | 707            |                | 119            | 219      | 131     |        | 1176       | 40             |             |
|       | 2002                         | •        | •      | 1/18           | . 400          | 65             | 300      | 224     |        | 1446       | 52             |             |
|       | 2003                         | . 1002   | . 100  | 679            | 251            | 121            | 170      | 210     | 26     | 2550       | 20             |             |
|       | 2004                         | 1003     | 100    | 070            | 201            | 121            | 204      | 210     | 20     | 2009       | 20             |             |
|       | 2005                         |          |        | 700            | 242            | 221            | 405      | 203     | 40     | 1900       | 39             |             |
|       | 2006                         | 387      | 88     | 700            | 483            | 41             | 425      | 541     | 43     | 2372       | 43             |             |
|       | 2007                         | 596      | 144    | 379            | 213            | 83             | 70       | 126     | 0      | 1380       | 28             |             |
|       | 2008                         | 233      | •      | 622            | 221            | 178            | 223      | 106     | 1      | 1590       | 43             |             |
|       | 2009                         |          |        | 1729           | 265            | 132            | 231      | 186     | 0      | 2543       | 51             |             |
|       | 2010                         | 1106     | 80     | 825            | 268            | 35             | 182      | 30      | 0      | 2526       | 37             |             |
|       |                              |          |        |                |                |                |          |         |        |            |                |             |
| Bioma | ISS                          |          |        |                |                |                |          |         |        |            |                |             |
| Year  |                              | Str1.1   | Str1.2 | Str2.1         | Str2.2         | Str3.1         | Str3.2   | Str4.1  | Str4.2 | Total      | CI             | GLM Bi      |
|       | 1982                         | 3097     | 993    | 1465           | 336            | 388            | 86       | 146     |        | 6511       | 28             | 4323        |
|       | 1983                         | 810      | 184    | 652            | 115            | 666            | 28       | 55      |        | 2510       | 25             | 1858        |
|       | 1984                         | 824      | 355    | 434            | 105            | 134            | 127      | 137     |        | 2116       | 27             | 2068        |
|       | 1985                         | 447      | 377    | 791            | 207            | 146            | 50       | 52      |        | 2070       | 27             | 1791        |
|       | 1986                         | 452      | 545    | 386            | 80             | 113            | 58       | 35      |        | 1669       | 27             | 1576        |
|       | 1987                         | 397      | 108    | 281            |                | 137            |          | -168    | 30     | 785        | 39             | 1290        |
|       | 1988                         | 640      | 98     | 563            | 243            | 90             | 19       | 31      |        | 1684       | 27             | 1579        |
|       | 1989                         | 2225     | 434    | 1084           | 109            | 258            |          | 79      | -      | 4189       | 24             | 3057        |
|       | 1990                         | 1409     | 409    | 560            | 76             | 111            |          | 135     | . 231  | 2031       | 34             | 2204        |
|       | 1001                         | 205      | 83     | 188            | /3             | 274            | . 52     | 20      | 32     | 087        | 28             | 1006        |
|       | 1002                         | 230      | 100    | 167            | 470            | 214            | 111      | 20      | 32     | 1100       | 20             | 1000        |
|       | 1992                         | 200      | 109    | 107            | 170            | 200            | 20       | 20      | 20     | 707        | 20             | 002         |
|       | 1993                         | 300      | 104    | 94             | 40             | 39             | 30       | 4       | . 10   | 101        | 23             | 902         |
|       | 1994                         | 215      | 73     | 134            | 29             | 90             | 14       | 57      | 12     | 624        | 22             | 101         |
|       | 1995                         |          |        |                |                | 69             | 35       | 39      | 1      | 144        | 49             | 1894        |
|       | 1996                         | 102      | 27     | 40             | 26             | -22            | 18       | 9       | 15     | 259        | 26             | 617         |
|       | 1997                         | 346      | 97     | 173            | 6              | 16             | 32       | 37      | 0      | 707        | 31             | 843         |
|       | 1998                         | 186      | 99     | 100            | 49             | 58             | 15       | 9       | 16     | 532        | 29             | 736         |
|       | 1999                         | 159      | 61     | 152            | 70             | 69             | 29       | 59      |        | 599        | 30             | 1052        |
|       | 2000                         | 119      | 55     | 142            | 355            | 110            | 14       | 30      | 15     | 840        | 54             | 1075        |
|       | 2001                         |          |        | 89             | 36             | 44             | 27       | 143     | 19     | 358        | 40             | 1733        |
|       | 2002                         |          |        | 150            |                | 25             | 36       | 15      |        | 226        | 35             | 1716        |
|       | 2003                         |          |        | 80             | 62             | 28             | 56       | 102     | 0      | 328        | 43             | 1840        |
|       | 2004                         | 80       | 22     | 156            | 53             | 39             | 24       | 37      | 12     | 423        | 34             | 799         |
|       | 2005                         |          |        | 167            | 62             | 79             | 68       | 78      | 0      | 454        | 32             | 1836        |
|       | 2006                         | 28       | 16     | 169            | 152            | 8              | 78       | 164     | 12     | 548        | 46             | 1043        |
|       |                              |          |        |                |                |                | . 5      | 10      |        | 2.0        | 25             | 601         |
|       | 2007                         | ×        | / 4    | /X             | .7/            | ·Ju            | ~        | 10      |        |            |                |             |
|       | 2007                         | 10       | 23     | /8<br>45       | 24             | 29             | 2<br>28  | 19      | 5      | 140        | 56             | 674         |
|       | 2007<br>2008<br>2009         | 10       | . 23   | 78<br>45<br>72 | 24<br>21       | 29<br>35       | 28<br>26 | 19<br>5 | 5      | 149        | 56<br>50       | 674         |
|       | 2007<br>2008<br>2009<br>2010 | 83<br>10 | 23<br> | 78<br>45<br>73 | 24<br>21<br>42 | 29<br>35<br>15 | 28<br>26 | 5       | 5      | 149<br>131 | 56<br>59<br>45 | 674<br>1369 |

| Length       | 1998   | 1999 | 2000 | 2001 | 2002 | 2003       | 2004    | 2005    | 2006    | 2007 | 2008 | 2009   | 2010 |
|--------------|--------|------|------|------|------|------------|---------|---------|---------|------|------|--------|------|
| 0.5          | 0      | 0    | 0    | 0    | 0    | 0          | 0       | 0       | 0       | 0    | 0    | 0      | 0    |
| 1.5          | 0      | 0    | 0    | 0    | 0    | 0          | 0       | 0       | 0       | 0    | 0    | 0      | 0    |
| 2.5          | 0      | 0    | 0    | 0    | 0    | 0          | 0       | 6       | 0       | 0    | 0    | 0      | 0    |
| 3.5          | 0      | 0    | 0    | 0    | 0    | 0          | 0       | 0       | 0       | 0    | 0    | 0      | 0    |
| 4.5          | 0      | 0    | 0    | 0    | 0    | 0          | 0       | 0       | 0       | 0    | 0    | 0      | 0    |
| 5.5          | 0      | 0    | 0    | 0    | 0    | 0          | 0       | 0       | 0       | 0    | 0    | 0      | 0    |
| 6.5          | 0      | 0    | 0    | 0    | 0    | 0          | 11      | 0       | 0       | 0    | 0    | 0      | 0    |
| 7.5          | 0      | 0    | 0    | 0    | 0    | 0          | 0       | 0       | 0       | 0    | 0    | 0      | 0    |
| 8.5          | 0      | 38   | 12   | 0    | 0    | 0          | 0       | 0       | 0       | 25   | 0    | 0      | 0    |
| 9.5          | 82     | 364  | 89   | 9    | 13   | 0          | 61      | 11      | 27      | 21   | 62   | 143    | 4    |
| 10.5         | 435    | 681  | 62   | 84   | 93   | 63         | 155     | 23      | 74      | 69   | 162  | 739    | 126  |
| 11.5         | 225    | 369  | 124  | 82   | 80   | 49         | 179     | 85      | 110     | 126  | 185  | 1004   | 224  |
| 12.5         | 196    | 249  | 131  | 82   | 5    | 76         | 242     | 75      | 105     | 190  | 86   | 930    | 135  |
| 13.5         | 121    | 277  | 93   | 81   | 36   | 50         | 116     | 61      | 141     | 64   | 175  | 979    | 124  |
| 14.5         | 165    | 152  | 56   | 98   | 72   | 107        | 85      | 143     | 83      | 13   | 31   | 524    | 127  |
| 15.5         | 92     | 88   | 137  | 90   | 68   | 80         | 100     | 68      | 37      | 107  | 22   | 257    | 137  |
| 16.5         | 116    | 43   | 127  | 52   | 84   | 38         | 126     | 102     | 33      | 40   | 202  | 132    | 232  |
| 17.5         | 162    | 125  | 96   | 72   | 9    | 91         | 249     | 58      | 106     | 76   | 96   | 105    | 175  |
| 18.5         | 125    | 133  | 109  | 50   | 14   | 88         | 198     | 42      | 223     | 51   | 77   | 191    | 40   |
| 19.5         | 93     | 40   | 63   | 41   | 22   | 26         | 69      | 54      | 43      | 73   | 31   | 45     | 132  |
| 20.5         | 63     | 44   | 58   | 35   | 64   | 39         | 70      | 47      | 90      | 72   | 69   | 55     | 277  |
| 21.5         | 97     | 18   | 86   | 58   | 50   | 51         | 91      | 33      | 108     | 33   | 21   | 50     | 74   |
| 22.5         | 49     | 89   | 77   | 24   | 55   | 37         | 167     | 32      | 83      | 53   | 62   | 35     | 44   |
| 23.5         | 95     | 63   | 112  | 35   | 15   | 37         | 101     | 98      | 165     | 8    | 27   | 36     | 113  |
| 24.5         | 79     | 40   | 47   | 11   | 33   | 35         | 94      | 68      | 28      | 32   | 55   | 6      | 54   |
| 25.5         | 73     | 41   | 80   | 17   | 13   | 30         | 73      | 84      | 24      | 14   | 24   | 49     | 59   |
| 26.5         | 103    | 71   | 77   | 15   | 38   | 4          | 127     | 81      | 56      | 27   | 4    | 6      | 43   |
| 27.5         | 151    | 85   | 16   | 44   | 15   | . 8        |         | 59      | 27      | 11   | 7    | 0      | 4    |
| 28.5         | .54    | 58   | 144  | 17   | 25   | 0          | 69      | 27      | 27      | 51   | 30   | 6      | 36   |
| 29.5         | 74     | 126  | 47   |      | 13   | 46         | 68      | 14      | 82      | 11   | 6    | 9      | 93   |
| 30.5         |        | 46   | 30   | 20   | 25   | 6          | 29      | 30      | 59      | 8    | 14   | 0      | 8    |
| 31.5         | 54     | 142  | 90   | 12   | 13   | 16         | 44      | 5       | 45      | 14   | 6    | 0      | 22   |
| 32.5         | 9      | 77   | 71   | 20   | 28   | 20         | 62      | 29      | 45      | 0    | 16   | 0      | 0    |
| 33.5         | 58     | 90   | 121  | 20   | 0    | 14         | 40      | 15      | 45      | 0    | 0    | 9      | 20   |
| 34.5         | 59     | 45   | 72   | 36   | 13   | 4          | 12      | 26      | 25      | 0    | 0    | 6      | 30   |
| 35.5         | 40     | .34  | 68   | 21   | 18   | 8          | 79      | 23      | 50      | 0    | 18   | 0      | 25   |
| 36.5         | 59     | 74   | 40   | 29   | .0   | 0          | 20      | 28      | 60      | 0    | 0    | 15     | 11   |
| 37.5         | 33     | 30   | 92   | 24   | 13   | 0          | 0       |         | 65      | 0    | 0    | 0      | 10   |
| 38.5         | 42     | 130  | 93   | 19   | 37   | 29         | 22      | 27      | 34      | 38   | 10   | 9      | 20   |
| 39.5         | 34     | 33   | 79   | 43   | 13   | 17         | 24      | 22      | 25      | 23   | 10   | 0      | 34   |
| 40.5         | 49     | 33   | 60   | 30   | 14   | 20         | 12      | 47      | 33      | 8    | 18   | 30     | 28   |
| 41.5         | 0      | 29   | 91   | 60   | 13   | 25         | 12      | 6       | 20      | 69   | 17   | 21     | 9    |
| 42.5         | 7      | 35   | 57   | 11   | 18   | <u>7</u> 0 | 48      | 45      | 67      | 0    | 0    | 0      | 29   |
| 42.5         | ,<br>0 | 0    | 38   | 10   | 10   | 30         | 21      | 73      | 24      | 0    | 0    | 0<br>0 | 23   |
| 40.0         | 5      | 11   | 3/   | 13   |      | 13         | 6/      | 53      | 64      | 30   | 1    | 0      | 10   |
| 45.5         | 1/     | 0    | 33   | 12   | 0    | 20         | 16      | 11      | 20      | 03   | +    | 0      | 0    |
| -5.5<br>46 5 | 20     | 0    | 0    | 12   | 12   | 17         | 01<br>و | 0       | 15      | 0    | 0    | 9      | 0    |
| 40.3<br>47 5 | 20     | 0    | 0    | 0    | 13   | 1/         | 0       | 0       | ני<br>ג | 25   | 1    | 0      | 0    |
| -1.J         | 0      | 0    | 0    | 9    | 0    | 0          | 9       | 26      | 0       | 20   | 4    | 6      | 10   |
| 40.0<br>/0 F | 0      | 0    | 0    | 0    | 0    | 16         | 4       | 20<br>0 | 0       | 0    | 0    | 0      | 0    |
| 49.0<br>50 F | 5      | 0    | 0    | 0    | 0    | 0          | 4       | 0       | 0       | 0    | 0    | 0      | 0    |
| 50.5         | 0      | 0    | 0    | 0    | 0    | 0          | 13      | 0       | 0       | 0    | 0    | 0      | 0    |
| 01.0         | 0      | 0    | U    | 0    | 0    | U          | 4       | 0       | 0       | 0    | 0    | 0      | U    |

Table 16 Raja radiata. Length composition by year (1 000), 1998-2010.

| 2                       |     |     |     |     |     |     |     |     |                |     |     |     |     |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|----------------|-----|-----|-----|-----|
| Bottem<br>temperature - | 10  | 10  |     | 16  |     | 15  |     |     | Fast Greenland |     |     |     |     |
| woor                    | 11  | 12  | 2.1 | 22  | 2.1 | 22  | 4.1 | 12  | E 4            | 5 2 | 6 1 | 6.2 | 7 2 |
| 1081                    | 25  | 2.7 | 1.4 | 47  | 3.0 | 3.2 | 4.1 | 4.2 | 3.4            | 4.3 | 4.4 | 4.1 | 3.2 |
| 1982                    | 2.5 | 4.2 | 21  | 4.2 | 33  | 4.4 | 2.6 | 5.4 | 0.4            | 4.0 | 7.7 | 43  | 4.6 |
| 1983                    | 2.0 | 3.7 | 14  | 3.8 | 2.1 | 4.7 | 2.0 | 5.0 | 37             | 42  | 3.6 | 4.0 | 4.0 |
| 1984                    | 1.0 | 2.8 | 1.4 | 3.9 | 2.1 | 4.7 | 2.2 | 3.8 | 4.5            | 4.8 | 4.2 | 4.0 | 5.0 |
| 1985                    | 42  | 5.2 | 3.1 | 4.6 | 2.6 | 4.3 | 44  | 5.3 | 5.0            | 5.2 | 4.4 | 4.3 | 3.3 |
| 1986                    | 37  | 4 4 | 4.0 | 5.1 | 4.2 | 5.1 | 4.0 | 4.6 | 4.6            | 4.8 | 4.0 | 4.5 | 3.3 |
| 1987                    | 31  | 4.8 | 3.4 | 4.5 | 3.5 | 5.3 | 3.5 | 4.6 | 3.3            | 4.5 | 37  | 4 4 | 3.3 |
| 1988                    | 2.7 | 4.3 | 3.0 | 5.0 | 4.2 | 5.2 | 4.3 | 5.3 | 4.5            | 4.6 | 4.3 | 4.6 | 3.8 |
| 1989                    |     |     |     |     |     |     |     |     | 3.3            | 37  | 37  | 4 1 | 5.6 |
| 1990                    | 2.5 | 3.9 | 3.0 | 4.8 | 3.4 | 4.8 | 2.5 | 4.6 | 4.4            | 4.6 | 3.3 | 4.0 | 3.0 |
| 1992                    | 3.9 | 4.4 | 2.9 | 4.5 | 3.0 | 4.7 | 1.9 | 3.5 |                |     |     |     | 3.6 |
| 1993                    | 3.0 | 4.3 | 2.5 | 3.4 | 4.7 | 5.0 | 2.8 |     | 3.8            | 4.1 | 4.3 | 4.4 | 2.8 |
| 1994                    | 2.9 | 4.4 | 3.7 | 4.6 | 3.9 | 5.1 | 3.8 | 5.2 |                |     |     |     | 3.6 |
| 1995                    |     |     | 3.8 |     | 4.2 | 4.6 | 3.5 | 4.2 | 2.6            | 3.6 | 3.7 | 4.3 | 3.8 |
| 1996                    | 4.6 | 5.5 | 4.3 | 5.7 | 5.6 | 5.7 | 4.9 | 5.7 | 4.5            | 5.1 | 5.3 | 5.0 | 2.9 |
| 1997                    | 3.3 | 4.9 | 4.0 | 5.2 | 4.6 | 5.5 | 4.6 | 5.5 | 4.6            | 4.7 | 4.6 | 4.3 | 3.5 |
| 1998                    | 4.1 | 5.3 | 4.6 | 5.8 | 6.4 | 6.4 | 5.4 | 6.0 | 6.0            | 5.8 | 5.5 | 5.2 | 4.7 |
| 1999                    | 4.9 | 5.7 | 4.4 | 5.7 | 4.8 | 5.8 | 4.1 | 5.7 | 5.2            | 5.3 | 4.8 | 4.1 | 3.0 |
| 2000                    | 3.1 | 4.6 | 4.3 | 5.0 | 4.6 | 5.3 |     | 5.2 |                |     |     |     |     |
| 2001                    |     |     | 5.0 | 5.4 | 5.1 | 6.0 | 4.3 | 5.9 | 5.7            | 5.2 | 4.9 | 4.2 | 4.3 |
| 2002                    |     |     | 4.5 | 5.7 | 5.8 | 6.0 | 4.9 | 6.0 | 4.8            | 5.3 | 4.8 | 4.9 | 4.3 |
| 2003                    |     |     | 6.9 | 6.5 | 6.5 | 6.6 | 5.5 | 6.5 | 6.1            | 5.8 | 5.0 | 5.1 | 3.9 |
| 2004                    | 4.8 | 5.6 | 5.1 | 5.8 | 5.6 | 6.2 | 5.9 | 6.0 | 5.9            | 5.7 | 5.8 | 4.4 | 4.6 |
| 2005                    |     |     | 5.0 | 5.6 | 4.6 | 5.8 | 4.7 | 5.5 | 3.8            | 5.3 | 4.6 | 4.4 | 3.9 |
| 2006                    | 3.3 | 5.8 | 4.0 | 4.9 | 4.1 | 5.0 | 2.7 | 5.8 | 5.6            | 6.3 | 5.0 | 4.8 | 4.1 |
| 2007                    | 4.8 | 5.8 | 4.4 | 5.8 | 4.7 | 6.0 | 4.0 | 6.0 | 5.2            | 5.8 | 5.1 | 4.8 | 3.6 |
| 2008                    | 4.4 |     | 3.8 | 4.8 | 4.4 | 5.4 | 4.0 | 5.5 | 5.6            | 5.5 | 4.9 | 4.7 | 3.7 |

# Table 17 Stratum means of near bottom temperature (°C), 1982-2008.



Fig. 1 Stratification of the survey area in 2010 as specified in Table 2, positions of hauls carried out off West Greenland refer to strata 1 to 4.



Fig. 2 Abundance and biomass indices for *S. marinus* >=17 cm off West Greenland, 1982-2010. Respective values are listed in Table 3. GLM 1985-1989 subject to revision.



Fig. 3 Length disaggregated abundance indices for *S. marinus* >=17 cm off West Greenland, 2006-2010. Respective values are listed in Table 4.



Fig. 4 Abundance and biomass indices for *S. mentella*  $\geq$ =17 cm off West Greenland, 1982-2010. Respective values are listed in Table 5. GLM 1985-1989 subject to revision.



Fig. 5 Length disaggregated abundance indices for *S. mentella* >=17 cm off West Greenland, 2006-2010. Respective values are listed in Table 6.



Fig. 6 Abundance and biomass indices for *Sebastes spp.* <17 cm off West Greenland, 1982-2010. Respective values are listed in Table 7.



Fig. 7 Length disaggregated abundance indices for *Sebastes spp.* <17 cm off West Greenland, 2006-2010. Respective values are listed in Table 8.



Fig. 8 Abundance and biomass indices for *Hippoglossoides platessoides* off West Greenland, 1982-2010. Respective values are listed in Table 9.



Fig. 9 Length disaggregated abundance indices for *Hippoglossoides platessoides* off West Greenland, 2006-2010. Respective values are listed in Table 10.



Fig. 10 Abundance and biomass indices for *Anarhichas lupus* off West Greenland, 1982-2010. Respective values are listed in Table 11.



Fig. 11 Length disaggregated abundance indices for *Anarhichas lupus* off West Greenland, 2008-2010. Respective values are listed in Table 12.



Fig. 12 Abundance and biomass indices for *Anarhichas minor* off West Greenland, 1982-2010. Respective values are listed in Table 13.



Fig. 13 Length disaggregated abundance indices for *Anarhichas minor* off West Greenland, 2008-2010. Respective values are listed in Table 14.



Fig. 14 Abundance and biomass indices for *Raja radiata* off West Greenland, 1982-2008. Respective values are listed in Table 15.



Fig. 15 Length disaggregated abundance indices for *Raja radiata* off West Greenland, 2006-2010. Respective values are listed in Table 16. Year 2009 includes samples from stratum 1 (NAFO SA 1C) which were not included in the abnundance and biomass indices since they did not satisfy the minimum of 5 valid per stratum.



Fig. 16 Stratum means of near bottom temperature (°C) and stratified mean, 1982-2008. Respective values are listed in Table 17. Solid lines display trends in shallow strata (<200 m), dashed lines display trends in deep strata (>200 m),

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