**AmP parameter estimation**

**Classification of *Squalas acanthias***

|  |  |
| --- | --- |
| **Phylum:** | Chordata |
| **Class:** | Chondrichthyes |
| **Order:** | Squaliformes |
| **Family:** | Squalidae |
| **Scientific name:** | Squalus acanthias |
| **English name:** | Spurdog |

**Zero-variate data for *Squalas acanthias***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **code** | **value** | **unit** | **label** | **temp oC** | **bibkey\*** |
| ab | 690 | d | age at birth | 9 | JoneGeen1977 |
| tp | 2190 | d | time since birth at puberty | 9 | Avsa2001 |
| am | 29200 | d | life span | 9 | Steh2007 |
| Lb | 24 | cm | total length at birth | - | JoneGeen1977 |
| Lp | 72 | cm | total length at puberty | - | Avsa2001 |
| Li | 136 | cm | ultimate total length | - | Avsa2001 |
| Ww0 | 35 | g | wet weight at start (egg) | - | YigiIsme2013 |
| Wwp | 950 | g | wet weight at puberty | - | Avsa2001 |
| Wwi | 9900 | g | ultimate wet weight | - | Avsa2001 |
| Ri | 0.019 | #/d | maximum reprod rate | 9 | Avsa2001 |

**References**

|  |  |
| --- | --- |
| **[Avsar2001]** | D. Avsar. 2001. Age, Growth, Reproduction and Feeding of the Spurdog (*Squalus acanthias* Linnaeus, 1758) in the South-eastern Black Sea Estuarine, Coastal and Shelf. Science, 52: 269-278 |
| **[JoneGeen1977** ] | Jones, B. C. and Geen, G. H. 1977. Reproduction and Embryonic Development of Spiny Dogfish (*Squalus acanthias*) in the Strait of Georgia, British Columbia. J Fish Res Board Can, 34: 1286-1292 |
| **[Steh2007**] | L. L. Stehlik. 1972. Spiny Dogfish, *Squalus a*canthias, Life History and Habitat Characteristics. NOAA Technical Memorandum, NMFS-NE-203 |
| **[YigiIsme2013]** | Yigin, C.C. and Ismen, A. 2013. Reproductive Biology of Spiny Dogfish *Squalus acanthias*, in the North Aegean Sea. Turkish Journal of Fisheries and Aquatic Sciences, 13:169-177 |

**EcoCodes for *Squalus acanthias***

|  |  |  |
| --- | --- | --- |
| **climate** | MB, MC | subtropical: average surface temp (SST) >15 °C, < 25 °Ctemperate: average surface temp (SST) >5 °C, < 15 °C |
| **ecozone** | MAN, MAm, MAS | Atlantic ocean, N; Mediterranean Sea; Atlantic ocean, S |
| **habitat** | 0iMcd | marine coastal demersal  |
| **embryo** | Mv | (ovo)viviparous, born in marine water |
| **migrate** | Mo | oceanodromous: live and migrate wholly in the sea |
| **food** | biCi, biCvf | living invertebrates (Ci) and living vertebrates (Cvf) from birth to ultimate size (bi) |
| **gender** | D |  dioecy (either male or female, also called gonochoric) |
| **reprod** | O | homogamy (no alternating generations, fertilisation obligatory) |

**Uni-variate data for *Squalas acanthias***

Length (cm) – embryo number (#)

 72.0 2.5

 77.0 2.8

 82.0 3.2

 87.0 3.3

 92.0 4.1

 97.0 4.7

 102.0 6.6

 107.0 7.0

 112.0 9.0

 117.0 11.4

 122.0 13.1

 127.0 14.0

 132.0 14.0

 137.0 14.0