|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **S****pecies** | ***t* 0** | ***L∞* (cm)** | ***K***  **(y-1)** | ***L*mat (cm)** | ***Tm* (y)** | **sex** | **area** | **source** |
| *Amblyraja radiata* |  | 66 | 0.233 | 46 | 4 | U | North Sea | [12] |
| *Eutrigla gurnardus* |  | 46 | 0.16 | 23 | 3 | U | North Sea | [5] |
| *Eutrigla gurnardus* |  |  | 0.21 | 18 | 1.5 | F | Irish Sea | [3] |
| *Eutrigla gurnardus* | 0.16 | 38 | 0.77 |  |  | F | Celtic Sea | [1] |
| *Eutrigla gurnardus* | 0.85 | 34.4 | 0.85 |  |  | M | Celtic Sea | [1] |
| *Eutrigla gurnardus* |  | 46.2 | 0.156 | 21 | 2.5 | U | North Sea | [12] |
| *Leucoraja circularis* |  | 98.8 | 0.121 | 51.2 | 5.3 | U | North Sea | [12] |
| *Leucoraja fullonica* |  | 98.8 | 0.121 | 51.2 | 5.3 | U | North Sea | [12] |
| *Molva dipterygia* | \* | 155 | 0.13 | 85 |  | F | North Sea | [14] |
| *Molva dipterygia* | \* | 113 | 0.157 |  |  | M | North Sea | [14] |
| *Molva dipterygia* |  |  |  | 50 | 6 | U | West Ireland/British Isles | [3] |
| *Molva dipterygia* |  | 155 | 0.126 | 77.8 | 5 | U | North Sea | [12] |
| *Molva molva* | \* | 183 | 0.12 | 90 | 6.5 | F | North Sea | [14], [19] |
| *Molva molva* | \* | 132 | 0.17 |  |  | M | North Sea | [14] |
| *Molva molva* |  |  |  | 67.5 | 9 | U | West Ireland/British Isles | [3] |
| *Molva molva* |  | 183 | 0.118 | 85 | 5.5 | U | North Sea | [12] |
| *Pollachius pollachius* |  | 85.6 | 0.19 |  |  | U | North Sea | [18] |
| *Pollachius pollachius* |  | 85.6 | 0.186 | 44.8 | 3.7 | U | North Sea | [12] |
| *Pollachius virens* |  | 107 | 0.19 | 55.4 | 4.6 | U | North Sea | [2], [18] |
| *Pollachius virens* |  | 177.1 | 0.07 | 55 | 4.6 | U | North Sea | [12] |
| *Pollachius virens* | -0.04 | 87.7 | 0.211 |  |  | M | North Sea | [4] |
| *Pollachius virens* | -0.58 | 120 | 0.15 |  |  | M | North Sea | [21] |
| *Psetta maxima* | -0.05 | 64.8 | 0.26 | 46 |  | F | North Sea | [15] |
| *Psetta maxima* | -0.51 | 49.2 | 0.37 |  |  | M | North Sea | [15] |
| *Psetta maxima* |  | 65.2 | 0.324 | 49 |  | M | Bay of Biscay | [9], [7] |
| *Psetta maxima* |  | 73.6 | 0.277 | 49 |  | F | Bay of Biscay | [9], [7] |
| *Psetta maxima* | -1.79 | 69.6 | 0.2497 | 49 | 4.5 | U | North Sea | [19], [8], [16], [17] |
| *Psetta maxima* |  | 57 | 0.32 | 46 | 4.5 | U | North Sea | [12] |
| *Psetta maxima* |  | 52.5 | 0.32 |  |  | M | North Sea | [17] |
| *Psetta maxima* | -1.79 | 70 | 0.148 |  |  | F | North Sea | [17] |
| *Raja batis* | -1.63 | 254 | 0.06 | 130 | 11 | U | North Sea | [11] |
| *Raja batis* |  | 253.7 | 0.057 | 155 | 15 | U | North Sea | [12] |
| *Raja brachyura* |  | 139 | 0.12 | 100 | 9.3 | U | North Sea | [12] |
| *Raja brachyura* | -0.8 | 118 | 0.19 |  |  | M | Irish Sea | [13] |
| *Raja brachyura* | -1.52 | 139 | 0.12 |  |  | F | Irish Sea | [13] |
| *Raja clavata* | -1.32 | 128 | 0.09 |  |  | F | Irish Sea | [13] |
| *Raja clavata* | -0.6 | 85.6 | 0.21 |  |  | M | Irish Sea | [13] |
| *Raja clavata* |  | 105 | 0.22 | 65 | 5 | U | North Sea | [12] |
| *Raja montagui* | -0.37 | 72.8 | 0.18 |  |  | F | Irish Sea | [13] |
| *Raja montagui* | -0.56 | 68.7 | 0.19 |  |  | M | Irish Sea | [13] |
| *Raja montagui* |  | 97.8 | 0.148 | 67 | 6 | U | North Sea | [12] |
| *Raja naevus* | -0.465 | 92 | 0.11 | 59 | 9 | U | North Sea | [11] |
| *Raja naevus* |  | 91.6 | 0.109 | 59 | 9 | U | North Sea | [12] |
| *Raja radiata* |  | 66 | 0.23 | 46 | 4 | U | North Sea | [22] |
| *Raja undulata* |  | 112 | 0.1 | 57.5 | 6.3 | U | North Sea | [12] |
| *Scophthalmus rhombus* |  | 74.88 | 0.14 | 37 |  | M | Bay of Biscay | [9], [7] |
| *Scophthalmus rhombus* |  | 85.23 | 0.147 | 37 |  | F | Bay of Biscay | [9], [7] |
| *Scophthalmus rhombus* |  | 50 | 0.27 | 37 | 4.5 | U | North Sea | [12] |
| *Sprattus sprattus* | \* | 16 | 0.65 | 13 |  | U | North Sea | [20] |
| *Zeus faber* |  | 58 | 0.21 | 37 |  | U | Bay of Biscay | [20], [9], [10] |
| *Zeus faber* | \* | 56.7 | 0.267 |  |  | U | Bay of Biscay | [6] |
| *Zeus faber* | \* | 69.3 | 0.147 |  |  | F | Bay of Biscay | [6] |

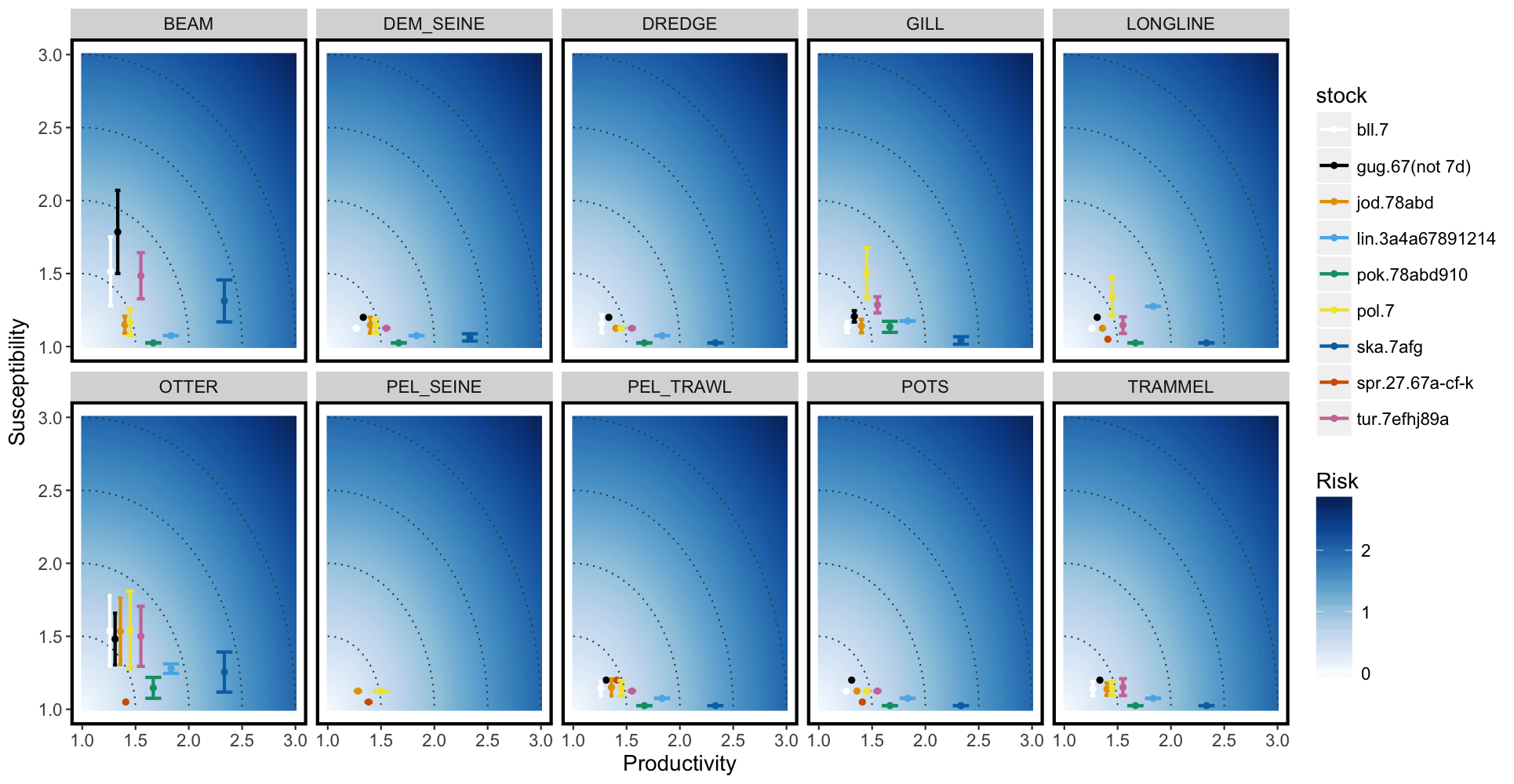
**Table 1** life history parameters for MYDAS study species in North Atlantic. *L∞* is aymptopic maximum length. *K* is growth rate, *Tm*age at maturity and *Lmat* is length at maturity and *t0* time at which fish is at 0 length. \* denotes missing from paper.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **species** | **trophic level** | **fecundity min** | **fecundity max** | **region** | **source** | **reproductive strategy** | **iucn** | **iucn colour** |
| *Eutrigla gurnardus* | 3.9 | 200000 | 300000 | North Sea | Fishbase | Broadcast spawner | Not evaulated | white |
| *Pollachius pollachius* | 4.3 |  |  |  | Fishbase | Broadcast spawner | Not evaulated | white |
| *Pollachius virens* | 4.3 | 677000 | 8985000 | North Sea | Fishbase | Broadcast spawner | Least concern | green |
| *Pollachius virens* | 4.3 | 220000 | 8260000 | Western North Atlantic | Fishbase | Broadcast spawner | Least concern | green |
| *Zeus faber* | 4.5 |  |  |  | Fishbase | Broadcast spawner | Data deficient | yellow |
| *Psetta maxima* | 4.4 | 5000000 | 1500000 | Unspecified | Fishbase | Broadcast spawner | Not evaluated | white |
| *Sprattus sprattus* | 3 | 8848 |  | North Sea | Fishbase | Broadcast spawner | Not evaluated | white |
| *Scophthalmus rhombus* | 4.4 |  |  |  | Fishbase | Broadcast spawner | Not evaluated | white |
| *Molva dypterygia* | 4.5 |  |  |  | Fishbase | Broadcast spawner | Not evaluated | white |
| *Molva molva* | 4.4 | 600000 |  |  | Fishbase | Broadcast spawner | Not evaluated | white |
| *Raja clavata* | 3.8 | 0 | 142 | British waters | Fishbase | Demersal egg layer | Near threatened | red |
| *Amblyraja radiata* | 4.2 | 56 |  | CanadianWaters | Fishbase | Demersal egg layer | Vunerable | red |
| *Raja brachyura* | 3.8 | 30 |  | Eastern Atlantic | Fishbase | Demersal egg layer | Near threatened | red |
| *Leucoraja naevus* | 4.2 | 90 |  | Atlantic | Fishbase | Demersal egg layer | Least concern | green |
| *Raja montagui* | 3.9 | 24 | 60 | Unspecified | Fishbase | Demersal egg layer | Least concern | green |
| *Raja batis* | 3.5 | 40 |  | North Sea | Fishbase | Demersal egg layer | Critically endangered | red |
| *Raja undulata* | 3.5 |  |  |  | Fishbase | Demersal egg layer | Endangered | red |

**Table 2** reproductive strategy, status and trophic level

**Table 3** post capture survival.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **species** | **gear** | **survival lower** | **survival upper** | **source** | **area** |
| *Eutrigla gurnardus* | Beam trawl | 0 | 0 | Fulton (1890) | UK |
| *Bathyraja spp.* | Longline | 96 | 100 | Benoit and Hurlbut (2010) | Canada |
| *Rajidae* | Otter trawl | 55 | 55 | Enever (2009) | UK |
| *Rajidae* | Otter trawl | 55 | 67 | Enever (2010) | UK |
| *Pollachius virens* | Shrimp trawl | 48 | 89 | Ross and Hokenson (1997) | USA |
| *Pleuronectes platessa* | Beam trawl | 0 | 48 | van Beek et al. (1990) | UK |
| *Pleuronectes platessa* | Shrimp trawl | 12 | 70 | Kelle (1976) | UK |



**Figure 1** PSA analysis.

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