

Mediterranean Marine Science

Vol 22, No 3 (2021)

VOL 22, No 3 (2021)



An overview of bottom trawl selectivity in the Mediterranean Sea

ALESSANDRO LUCCHETTI, MASSIMO VIRGILI,
CLAUDIO VASAPOLLO, ANDREA PETETTA, GIADA
BARGIONE, DANIEL LI VELI, JURE BRČIĆ,
ANTONELLO SALA

doi: [10.12681/mms.26969](https://doi.org/10.12681/mms.26969)

To cite this article:

LUCCHETTI, A., VIRGILI, M., VASAPOLLO, C., PETETTA, A., BARGIONE, G., LI VELI, D., BRČIĆ, J., & SALA, A. (2021). An overview of bottom trawl selectivity in the Mediterranean Sea. *Mediterranean Marine Science*, 22(3), 566–585. <https://doi.org/10.12681/mms.26969>

An overview of bottom trawl selectivity in the Mediterranean Sea

Alessandro LUCCHETTI, Massimo VIRGILI, Claudio VASAPOLLO, Andrea PETETTA, Giada BARGIONE,
Daniel Li VELI, Jure BRČIĆ and Antonello SALA

Mediterranean Marine Science, 2021, 22 (3)

Table S1. Length at first maturity of Mediterranean marine species.

Species: species on which the study was conducted; LFM: length at which 50% of a population become sexually mature for the first time; Gender: F (female), M (male), C (combined sex); N: number of individuals sampled in the study; GSA: GFCM Geographical Sub-Areas (GSA) where experiment was conducted.

| Species | LFM | Gender | N | GSA | Reference |
|----------------------------------|-------|--------|------|---------------------------------|-------------------------------------|
| <i>Alloteuthis media</i> | 3.3 | F | 1004 | 22 | Salman (2014) |
| | 2.8 | M | | 22 | Salman (2014) |
| <i>Aristaeomorpha foliacea</i> | 4.06 | F | 2780 | 9 | Belcari <i>et al.</i> (2003) |
| | 4.41 | F | 5442 | 19 | Carlucci <i>et al.</i> (2006) |
| | 3.88 | F | 1202 | 20 | Kapiris & Thessalou-Legaki (2009) |
| | 3.9 | F | NA | 24 | Deval (2019) |
| <i>Aristeus antennatus</i> | 3.13 | F | 2951 | 19 | Carlucci <i>et al.</i> (2006) |
| | 2.95 | F | 1487 | 20 | Kapiris & Thessalou-Legaki (2009) |
| | 2.1 | F | NA | 5 | Garcia-Rodriguez & Esteban (1999) |
| <i>Arnoglossus laterna</i> | 11.88 | F | 2469 | 22 | İlkyaz <i>et al.</i> (2017) |
| | 11.41 | M | | 22 | İlkyaz <i>et al.</i> (2017) |
| <i>Arnoglossus thori</i> | 8.81 | F | 422 | 22 | İlkyaz <i>et al.</i> (2018) |
| | 8.64 | M | | 22 | İlkyaz <i>et al.</i> (2018) |
| <i>Aspitrigla cuculus</i> | 28.1 | F | 563 | Atlantic | Marriott <i>et al.</i> (2010) |
| | 26.3 | M | 192 | Atlantic | Marriott <i>et al.</i> (2010) |
| | 28.4 | F | NA | Atlantic | Baron (1985) |
| | 27 | M | NA | Atlantic | Baron (1985) |
| | 15.1 | F | NA | 10 | Colloca <i>et al.</i> (2003) |
| | 15.4 | M | NA | 10 | Colloca <i>et al.</i> (2003) |
| | 16.7 | F | 130 | 17 | Vallisneri <i>et al.</i> (2010) |
| 15 | M | 165 | 17 | Vallisneri <i>et al.</i> (2010) | |
| <i>Atherina boyeri</i> | 7.8 | F | NA | 17 | Bartulovic <i>et al.</i> (2006) |
| <i>Boops boops</i> | 17.1 | C | 110 | 3 | Zoubi (2001) |
| | 14.5 | F | 335 | 17 | Alegria-Hernandez (1990) |
| | 13.2 | M | 440 | 17 | Alegria-Hernandez (1990) |
| | 14.1 | F | 1774 | 4 | Bensahla Talet <i>et al.</i> (1990) |
| | 13.5 | F | NA | 4 | Chali-Chabane (1988) |
| | 13.8 | F | 778 | 23 | Kallianiotis (1992) |
| | 13.3 | M | 597 | 23 | Kallianiotis (1992) |
| | 12 | F | 695 | 23 | Kallianiotis (1992) |
| | 11.9 | M | 456 | 23 | Kallianiotis (1992) |
| <i>Buglossidium luteum</i> | 8.12 | F | 563 | 22 | İlkyaz <i>et al.</i> (2010b) |
| | 7.89 | M | 395 | 22 | İlkyaz <i>et al.</i> (2010b) |
| <i>Chelidonichthys lastoviza</i> | 15.3 | F | 104 | 26 | Abdallah & Faltas (1998) |
| | 14.5 | M | 103 | 26 | Abdallah & Faltas (1998) |
| | 18.7 | C | 870 | 14 | Boudaya <i>et al.</i> (2004) |
| | 15.7 | F | 478 | 12 | Ben Jrad <i>et al.</i> (2010) |
| | 16.4 | M | 210 | 12 | Ben Jrad <i>et al.</i> (2010) |

Continued

Table S1 continued

| Species | LFM | Gender | N | GSA | Reference |
|----------------------------------|-------|--------|------|-----------------------------|----------------------------------|
| <i>Chlorophthalmus agassizii</i> | 11.5 | F | NA | 19 | D'Onghia <i>et al.</i> (2006) |
| | 12 | F | 1413 | 11 | Cabiddu <i>et al.</i> (2010) |
| | 9 | M | | 11 | Cabiddu <i>et al.</i> (2010) |
| <i>Citharus linguatula</i> | 11.98 | F | 2345 | 22 | Ilkyaz <i>et al.</i> (2018) |
| | 12.89 | M | | 22 | Ilkyaz <i>et al.</i> (2018) |
| <i>Coelorinchus caelorhincus</i> | 16.2 | F | 521 | 19 | D'Onghia <i>et al.</i> (1996) |
| <i>Dentex dentex</i> | 34.5 | F | 523 | 17 | Cetinic <i>et al.</i> (2002) |
| | 33.3 | M | NA | 17 | Cetinic <i>et al.</i> (2002) |
| | 34.6 | F | 210 | 5 | Morales-Nin & Moranta (1997) |
| | 52 | M | | 5 | Morales-Nin & Moranta (1997) |
| <i>Dentex gibbosus</i> | 41.5 | F | 443 | 17 | Grubisic <i>et al.</i> (2007) |
| | 41.5 | M | 366 | 17 | Grubisic <i>et al.</i> (2007) |
| <i>Dentex macrophthalmus</i> | 10.83 | F | 716 | 22 | Soykan <i>et al.</i> (2015b) |
| | 11.77 | M | | 22 | Soykan <i>et al.</i> (2015b) |
| <i>Dentex maroccanus</i> | 14.4 | F | 858 | 4 | Mohdeb & Hicem Kara (2014) |
| | 15.1 | M | 802 | 4 | Mohdeb & Hicem Kara (2014) |
| <i>Diplodus annularis</i> | 10.02 | F | 2393 | 22 | Ilkyaz <i>et al.</i> (2018) |
| | 10.53 | M | | 22 | Ilkyaz <i>et al.</i> (2018) |
| | 12.6 | C | 719 | 4 | Nouacer & Kara (2001) |
| | 10 | F | 2615 | 12 | Saied & Kartas (1988) |
| | 9.5 | M | 1986 | 12 | Saied & Kartas (1988) |
| | 10.4 | F | 167 | 22 | Metin & Akyol (2003) |
| | 12.2 | F | 322 | 22 | Koc <i>et al.</i> (2002) |
| | 12.1 | M | 330 | 22 | Koc <i>et al.</i> (2002) |
| | 10 | F | 780 | 17 | Matic-Skoko <i>et al.</i> (2007) |
| | 9 | M | 745 | 17 | Matic-Skoko <i>et al.</i> (2007) |
| | 9.7 | F | 276 | 12 | Mouine <i>et al.</i> (2012) |
| 10.2 | M | 123 | 12 | Mouine <i>et al.</i> (2012) | |
| <i>Diplodus cervinus</i> | 25 | C | 230 | 4 | Derbal & Kara (2010) |
| <i>Diplodus puntazzo</i> | 22.6 | F | 1003 | 17 | Cetinic <i>et al.</i> (2002) |
| | 21.8 | M | | 17 | Cetinic <i>et al.</i> (2002) |
| | 21.5 | F | 56 | 12 | Mouine <i>et al.</i> (2012) |
| | 21.5 | M | 136 | 12 | Mouine <i>et al.</i> (2012) |
| <i>Diplodus sargus</i> | 23.5 | F | 318 | 17 | Cetinic <i>et al.</i> (2002) |
| | 22.6 | M | 14.2 | 17 | Cetinic <i>et al.</i> (2002) |
| | 18 | F | 30 | 26 | Zaki <i>et al.</i> (2001) |
| | 20.5 | F | 108 | 12 | Mouine <i>et al.</i> (2007) |
| | 20.5 | M | 37 | 12 | Mouine <i>et al.</i> (2007) |
| | 20 | F | 98 | 4 | Benchalel & Kara (2010) |
| | 20.2 | M | 143 | 4 | Benchalel & Kara (2010) |
| | 21.2 | F | 166 | 12 | Mouine <i>et al.</i> (2012) |
| | 20.4 | M | 74 | 12 | Mouine <i>et al.</i> (2012) |
| | 19.5 | F | 2809 | 17 | Cetinic <i>et al.</i> (2002) |
| | 18.7 | M | | 17 | Cetinic <i>et al.</i> (2002) |
| | 16.5 | F | 235 | 16 | Beltrano <i>et al.</i> (2003) |
| | 16.4 | M | 209 | 16 | Beltrano <i>et al.</i> (2003) |
| | 16 | F | NA | 26 | Zaki <i>et al.</i> (2004) |
| | 15.5 | M | NA | 26 | Zaki <i>et al.</i> (2004) |
| | 18 | F | 435 | 27 | Hammoud & Saad (2007) |
| 18.5 | M | | 27 | Hammoud & Saad (2007) | |
| 17.1 | F | 297 | 12 | Mouine <i>et al.</i> (2012) | |

Continued

Table S1 continued

| Species | LFM | Gender | N | GSA | Reference |
|----------------------------------|-------|--------|------|---------------------------|-----------------------------------|
| | 17.6 | M | 108 | 12 | Mouine <i>et al.</i> (2012) |
| <i>Diplodus vulgaris</i> | 12.87 | F | 709 | 22 | Soykan <i>et al.</i> (2015b) |
| | 13.37 | M | | 22 | Soykan <i>et al.</i> (2015b) |
| <i>Eledone cirrhosa</i> | 9.1 | F | 473 | 10 | Donnaloia <i>et al.</i> (2010) |
| | 8.8 | M | 497 | 10 | Donnaloia <i>et al.</i> (2010) |
| | 9.7 | F | 1845 | 18 | Donnaloia <i>et al.</i> (2010) |
| | 7.8 | M | 1453 | 18 | Donnaloia <i>et al.</i> (2010) |
| <i>Engraulis encrasicolus</i> | 9.28 | F | 750 | 18 | Mandic <i>et al.</i> (2015) |
| | 9.02 | M | | 18 | Mandic <i>et al.</i> (2015) |
| | 8.5 | F | 199 | 17 | Sinovicic & Zorica (2006) |
| | 7.9 | M | 255 | 17 | Sinovicic & Zorica (2006) |
| <i>Eutriglia gurnardus</i> | 24 | F | NA | Atlantic | Muus & Nielsen (1999) |
| | 18 | M | NA | Atlantic | Muus & Nielsen (1999) |
| | 15 | F | 195 | 17 | Vallisneri <i>et al.</i> (2010) |
| | 12.2 | M | 137 | 17 | Vallisneri <i>et al.</i> (2010) |
| <i>Galeus melastomus</i> | 44.3 | M | 1629 | 1 | Rey <i>et al.</i> (2005) |
| | 48.8 | F | | 1 | Rey <i>et al.</i> (2005) |
| <i>Helicolenus dactylopterus</i> | 13 | M | 295 | 6 | Munoz & Casadevall (2002) |
| | 14.5 | F | | 6 | Munoz & Casadevall (2002) |
| <i>Illex coindetii</i> | 13.7 | M | 527 | 18 | Ceriola <i>et al.</i> (2006) |
| | 14.6 | F | 559 | 18 | Ceriola <i>et al.</i> (2006) |
| <i>Lepidotrigla cavillone</i> | 10.55 | F | 824 | 22 | Ilkyaz <i>et al.</i> (2010a) |
| | 10.55 | M | 603 | 22 | Ilkyaz <i>et al.</i> (2010a) |
| | 10.1 | F | 1429 | 22 | Papaconstantinou (1982) |
| | 8.2 | F | 308 | 10 | Colloca <i>et al.</i> (1997) |
| | 9.3 | F | 2196 | 10 | Colloca <i>et al.</i> (1997) |
| <i>Lithognathus mormyrus</i> | 25.6 | F | 535 | 17 | Cetinic <i>et al.</i> (2002) |
| | 19.5 | M | | 17 | Cetinic <i>et al.</i> (2002) |
| | 13.9 | F | 1612 | 24 | Turkmen & Akyurt (2003) |
| | 13.4 | M | 1626 | 24 | Turkmen & Akyurt (2003) |
| | 19 | F | 221 | 16 | Vitale <i>et al.</i> (2003, 2011) |
| | 18.1 | M | 230 | 16 | Vitale <i>et al.</i> (2003, 2011) |
| | 18.3 | F | 142 | 16 | Vitale <i>et al.</i> (2003, 2011) |
| | 17.1 | M | 188 | 16 | Vitale <i>et al.</i> (2003, 2011) |
| | 19 | F | 821 | 22 | Kallianiotis <i>et al.</i> (2005) |
| | 16.2 | M | 477 | 22 | Kallianiotis <i>et al.</i> (2005) |
| | 18.5 | F | 149 | 24 | Emre <i>et al.</i> (2010) |
| 17.8 | M | 81 | 24 | Emre <i>et al.</i> (2010) | |
| <i>Loligo vulgaris</i> | 16 | F | 666 | 17 | Sifner & Vrgoc (2004) |
| | 12.5 | M | 720 | 17 | Sifner & Vrgoc (2004) |
| <i>Lophius budegassa</i> | 66.2 | C | 8944 | Entire med | Ungaro <i>et al.</i> (2002) |
| <i>Merlangius merlangus</i> | 25 | F | 177 | 17+18 | Vallisneri <i>et al.</i> (2006) |
| | 24 | M | 182 | 17+18 | Vallisneri <i>et al.</i> (2006) |
| <i>Merluccius merluccius</i> | 33.03 | F | 2555 | 10 | Carbonara <i>et al.</i> (2019) |
| | 30.03 | F | 2628 | 11 | Carbonara <i>et al.</i> (2019) |
| | 31.95 | F | 8035 | 18 | Carbonara <i>et al.</i> (2019) |
| | 32.95 | F | 2586 | 19 | Carbonara <i>et al.</i> (2019) |
| | 30.81 | F | 976 | 17 | Candelma <i>et al.</i> (2021) |
| | 33.73 | F | 976 | 17 | Candelma <i>et al.</i> (2021) |
| | 33.6 | C | 423 | 3 | Zoubi (2001) |
| | 30.5 | F | 73 | 4 | Bouaziz <i>et al.</i> (2001) |

Continued

Table S1 continued

| Species | LFM | Gender | N | GSA | Reference |
|---------------------------------|-------|--------|------|-------|---|
| | 31 | F | 955 | 1+6 | Garcia-Rodriguez & Esteban (1995) |
| | 25 | M | 502 | 1+6 | Garcia-Rodriguez & Esteban (1995) |
| | 36 | F | 1382 | 5 | Renones <i>et al.</i> (1995a) |
| | 27 | M | 1210 | 5 | Renones <i>et al.</i> (1995a) |
| | 42.5 | F | 584 | 9+10 | Biagi <i>et al.</i> (1995) |
| | 35.8 | F | 635 | 6 | Recasens <i>et al.</i> (2008) |
| | 35.1 | F | 2729 | 9+10 | Recasens <i>et al.</i> (2008) |
| | 27 | M | 1062 | 9+10 | Biagi <i>et al.</i> (1995) |
| | 38 | F | 308 | 7 | Recasens <i>et al.</i> (1998) |
| | 28.8 | M | 619 | 7 | Recasens <i>et al.</i> (1998) |
| | 29.5 | M | NA | 17+18 | Jukic & Piccinetti (1981) |
| | 26.5 | F | 81 | 21 | Mugahid & Hashem (1982) |
| | 29 | M | 198 | 21 | Mugahid & Hashem (1982) |
| | 29.5 | M | NA | 17+18 | Jukic & Piccinetti (1981) |
| | 31 | F | 955 | 5 | Garcia-Rodriguez & Esteban (1995) |
| | 25 | M | 502 | 5 | Garcia-Rodriguez & Esteban (1995) |
| | 32.5 | C | 320 | 26 | Al-Absawy (2010) |
| | 30.6 | F | NA | 4 | Bouaziz <i>et al.</i> (1998) |
| | 21.49 | F | 792 | 22 | Soykan <i>et al.</i> (2015a) |
| | 25.65 | M | 707 | 22 | Soykan <i>et al.</i> (2015a) |
| | 21.5 | M | NA | 4 | Bouaziz <i>et al.</i> (1998) |
| <i>Micromesistius poutassou</i> | 17.7 | F | 532 | 6 | Mir-Arguimbau <i>et al.</i> (2020) |
| | 18.3 | M | 424 | 6 | Mir-Arguimbau <i>et al.</i> (2020) |
| | 21 | C | 182 | 17+18 | Froggia & Gramitto (1981) |
| <i>Mullus barbatus</i> | 14.5 | M | 500 | 21 | Ramadan <i>et al.</i> (2017) |
| | 15.5 | F | | 21 | Ramadan <i>et al.</i> (2017) |
| | 11.8 | F | 1633 | 22 | Vassilopoulou & Papaconstantinou (1991) |
| | 10.6 | M | 1682 | 22 | Vassilopoulou & Papaconstantinou (1991) |
| | 14.3 | C | 104 | 3 | Zoubi (2001) |
| | 14 | F | 431 | 20 | Vassilopoulou (1987) |
| | 15.5 | M | 451 | 20 | Vassilopoulou (1987) |
| | 12.9 | F | 372 | 20 | Vassilopoulou (1987) |
| | 15.2 | M | 405 | 20 | Vassilopoulou (1987) |
| | 12.2 | F | 791 | 20 | Vassilopoulou (1987) |
| | 14.9 | M | 504 | 20 | Vassilopoulou (1987) |
| | 10.5 | M | NA | 17+18 | Jukic & Piccinetti (1981) |
| | 10.5 | F | NA | 17+18 | Jukic & Piccinetti (1981) |
| | 12.2 | F | 1083 | 1 | Del Arbol <i>et al.</i> (2004) |
| | 11.7 | M | 1083 | 1 | Del Arbol <i>et al.</i> (2004) |
| | 13.9 | F | 773 | 14 | Cherif <i>et al.</i> (2007) |
| | 13.9 | M | 263 | 14 | Cherif <i>et al.</i> (2007) |
| | 12.33 | F | 2691 | 22 | Ilkyaz <i>et al.</i> (2018) |
| | 11.56 | M | | 22 | Ilkyaz <i>et al.</i> (2018) |
| | 11.8 | F | 1633 | 22 | Wassef & El Emary (1989) |
| <i>Mullus surmuletus</i> | 13.9 | M | 279 | 22 | Kousteni <i>et al.</i> (2019) |
| | 15.3 | F | 593 | 22 | Kousteni <i>et al.</i> (2019) |
| | 17.8 | F | 179 | 3 | Lamrini (2010) |
| | 16.7 | M | 113 | 3 | Lamrini (2010) |
| | 15.1 | C | 1385 | 26 | Mehanna (2009) |
| | 15.5 | F | 157 | 22 | Vassilopoulou & Papaconstantinou (1995) |
| | 11.9 | M | 245 | 22 | Vassilopoulou & Papaconstantinou (1995) |

Continued

Table S1 continued

| Species | LFM | Gender | N | GSA | Reference |
|---------------------------------|-------|--------|-------|-------|---|
| | 16.8 | F | NA | 5 | Renones <i>et al.</i> (1995b) |
| | 15 | M | NA | 5 | Renones <i>et al.</i> , (1995b) |
| <i>Nemipterus randalli</i> | 11.02 | C | 587 | 24 | Demirci & Simsek (2018) |
| <i>Nephrops norvegicus</i> | 4.2 | M | 780 | 17 | Angelini <i>et al.</i> (2020) |
| | 2.5 | M | 662 | 17 | Angelini <i>et al.</i> (2020) |
| | 3.08 | F | 1447 | 17 | Angelini <i>et al.</i> (2020) |
| | 2.11 | F | 2300 | 17 | Angelini <i>et al.</i> , (2020) |
| | 3.27 | F | 4362 | 22 | Lolas & Vafidis (2021) |
| | 2.5 | F? | NA | 17 | Marano <i>et al.</i> (1998a) |
| | 3 | F? | NA | 17 | Orsi Relini <i>et al.</i> (1998) |
| | 2.75 | F? | NA | 17 | Ungaro <i>et al.</i> (1999) |
| | 2.81 | F | NA | 22 | Mente <i>et al.</i> (2009) |
| <i>Octopus vulgaris</i> | 12 | F | 302 | 11 | Cuccu <i>et al.</i> (2013) |
| | 7 | M | 361 | 11 | Cuccu <i>et al.</i> (2013) |
| <i>Pagellus acarne</i> | 16.95 | M | 795 | 4 | Bentata-Keddar <i>et al.</i> (2020) |
| | 18.63 | F | | 4 | Bentata-Keddar <i>et al.</i> (2020) |
| | 14.45 | F | 842 | 22 | Soykan <i>et al.</i> (2015b) |
| | 13.91 | M | | 22 | Soykan <i>et al.</i> (2015b) |
| | 16.4 | C | 101 | 3 | Zoubi (2001) |
| | 21.7 | F | 84 | 1 | Velasco <i>et al.</i> (2011) |
| | 18 | M | 187 | 1 | Velasco <i>et al.</i> (2011) |
| <i>Pagellus erythrinus</i> | 12.5 | F | 202 | 4 | Mahdi <i>et al.</i> (2018) |
| | 16.38 | C | 2152 | 27 | Lteif <i>et al.</i> (2020) |
| | 11.45 | F | 1428 | 22 | Metin <i>et al.</i> (2011b) |
| | 16.49 | M | | 22 | Metin <i>et al.</i> (2011b) |
| | 13.4 | F | 1190 | 22 | Somarakis & Machias (2002) |
| | 14.2 | M | | 22 | Somarakis & Machias (2002) |
| | 25.2 | M | 216 | 22 | Vassilopoulou & Papaconstantinou 1990 |
| | 18.3 | F | 526 | 22 | Mytilineou (1987) |
| | 23 | M | 83 | 22 | Mytilineou (1987) |
| | 20.3 | F | 291 | 22 | Mytilineou (1987) |
| | 26.6 | M | 28 | 22 | Mytilineou (1987) |
| | 16.5 | F | 1099 | 22 | Mytilineou (1987) |
| | 21.8 | M | 146 | 22 | Mytilineou (1987) |
| | 13.6 | F | NA | 17+18 | Jukic & Piccinetti (1981) |
| | 12.8 | F | 226 | 12 | Ghorbel & Ktari (1982) |
| | 13.3 | M | 139 | 12 | Ghorbel & Ktari (1982) |
| | 16.4 | F | NA | 4 | Cherabi (1987) |
| | 13 | F | 420 | 22 | Hossucu & Turker (2003) |
| | 11.3 | F | 1717 | 22 | Metin <i>et al.</i> (2011b) |
| | 15.1 | M | 136 | 22 | Metin <i>et al.</i> (2011b) |
| <i>Pagrus pagrus</i> | 31.3 | F | 151 | 22 | Vassilopoulou & Papaconstantinou (1992) |
| <i>Parapenaeus longirostris</i> | 1.63 | M | 20384 | 28 | İhsanoglu & İşmen (2020) |
| | 1.81 | F | 15904 | 28 | İhsanoglu & İşmen (2020) |
| | 1.82 | F | NA | 24 | Manaşirli & Avşar (2008) |
| <i>Phycis blennoides</i> | 24.7 | F | 225 | 4 | Benghali <i>et al.</i> (2014) |
| <i>Plesionika martia</i> | 1.55 | F | NA | 19 | Maiorano <i>et al.</i> (2002) |
| <i>Pomatomus saltatrix</i> | 17.1 | F | 288 | 14 | Dhieb <i>et al.</i> (2006) |
| | 18.1 | M | NA | 14 | Dhieb <i>et al.</i> (2006) |
| <i>Sardina pilchardus</i> | 11.6 | F | 7221 | 16 | Basilone <i>et al.</i> (2021) |
| | 11.2 | M | 7195 | 16 | Basilone <i>et al.</i> (2021) |

Continued

Table S1 continued

| Species | LFM | Gender | N | GSA | Reference |
|------------------------------|-------|--------|------|-------------------------------------|--|
| <i>Saurida undosquamis</i> | 16.5 | F | 602 | 24 | Ismen (2003) |
| | 16 | M | | 24 | Ismen (2003) |
| <i>Sciaena umbra</i> | 29.9 | F | 55 | 5 | Grau <i>et al.</i> (2009) |
| | 25.4 | M | 64 | 5 | Grau <i>et al.</i> (2009) |
| | 22 | F | NA | 29 | Engin & Seyhan (2009) |
| | 19.5 | M | 9 | 29 | Engin & Seyhan (2009) |
| | 26.5 | F | 79 | 4 | Derbal & Kara (2007) |
| | 26.5 | M | 82 | 4 | Derbal & Kara (2007) |
| | 30.2 | F | 127 | 12 | Chakroun-Marzouk & Ktari (2003) |
| | 28.8 | M | 110 | 12 | Chakroun-Marzouk & Ktari (2003) |
| | 25.1 | F | 339 | 12 | Chakroun-Marzouk & Ktari (2003) |
| | 23.9 | M | 238 | 12 | Chakroun-Marzouk & Ktari (1998) |
| <i>Scomber scombrus</i> | 22.8 | F | 1611 | 17 | Cikes Kec & Zorica (2012) |
| | 18.8 | M | 1085 | 17 | Cikes Kec & Zorica (2012) |
| <i>Scorpaena notata</i> | 8.8 | F | 471 | 5 | Ordines <i>et al.</i> (2006) |
| | 9.2 | M | 476 | 5 | Ordines <i>et al.</i> (2006) |
| <i>Scorpaena scrofa</i> | 19 | F | 11 | 7 | Kaim-Malka & Jacob (1985) |
| | 21 | M | 8 | 7 | Kaim-Malka & Jacob (1985) |
| <i>Scyliorhinus canicula</i> | 39.9 | F | 165 | 22 | Kousteni <i>et al.</i> (2010) |
| | 39.6 | M | 160 | 22 | Kousteni <i>et al.</i> (2010) |
| <i>Sepia elegans</i> | 4.1 | F | 492 | 22 | Salman (2015) |
| | 4.2 | M | 432 | 22 | Salman (2015) |
| <i>Sepia officinalis</i> | 8 | F | NA | 17 | Santojanni <i>et al.</i> (2012) |
| | 8 | F | 374 | 17 | Bettoso <i>et al.</i> (2006) |
| | 7 | M | 319 | 17 | Bettoso <i>et al.</i> (2006) |
| | 12 | F | 992 | 24 | Duisak <i>et al.</i> (2012) |
| | 10.3 | M | 1014 | 24 | Duisak <i>et al.</i> (2012) |
| | 8 | F | 81 | 22 | Akyol <i>et al.</i> (2011) |
| | 9 | M | 248 | 22 | Akyol <i>et al.</i> (2011) |
| | 12 | F | NA | Entire med | Roper <i>et al.</i> (1984) |
| | 10 | M | NA | Entire med | Roper <i>et al.</i> (1984) |
| | 13 | F | 152 | 22 | Onsoy & Salman <i>et al.</i> (2005) |
| 9 | M | NA | 22 | Onsoy & Salman <i>et al.</i> (2005) | |
| <i>Sepia orbignyana</i> | 6.6 | F | 106 | 17 | Krstulović Šifner <i>et al.</i> (2018) |
| | 5.8 | M | 135 | 17 | Krstulović Šifner <i>et al.</i> (2018) |
| <i>Serranus cabrilla</i> | 11.7 | C | 476 | 12 | Bouain (1981) |
| <i>Serranus hepatus</i> | 8.5 | C | 1290 | 22 | Wague (1997) |
| <i>Spicara flexuosa</i> | 9.5 | F | 1870 | 20 | Mytilineou (1988) |
| | 10.7 | M | 885 | 20 | Mytilineou (1988) |
| <i>Spicara maena</i> | 11.51 | F | 1766 | 22 | Soykan <i>et al.</i> (2010) |
| | 13.12 | M | 298 | 22 | Soykan <i>et al.</i> (2010) |
| | 10.5 | F | 373 | 12 | Sellami & Brusle (1979) |
| <i>Squilla mantis</i> | 1.96 | F | NA | 10 | Carbonara <i>et al.</i> (2013) |
| | 2.11 | F | NA | 18 | Carbonara <i>et al.</i> (2013) |
| | 2.03 | F | NA | 19 | Carbonara <i>et al.</i> (2013) |
| <i>Trachinus draco</i> | 12.01 | F | 306 | 29 | Ak & Genc (2013) |
| <i>Trachurus</i> spp | 19.1 | F | 369 | 22 | Karlou-Riga (1995) |
| | 22 | F | 595 | 22 | Karlou-Riga (1995) |
| | 20.2 | F | 154 | 17+18 | Alegria (1990) |
| | 20.8 | M | 150 | 17+18 | Alegria (1990) |
| | 21.6 | F | 134 | 17+18 | Alegria (1990) |

Continued

Table S1 continued

| Species | LFM | Gender | N | GSA | Reference |
|----------------------------|-------|--------|-------|-------|-----------------------------------|
| | 21.7 | M | 155 | 17+18 | Alegria (1990) |
| | 22.4 | F | 201 | 17+18 | Alegria (1990) |
| | 23.2 | M | 180 | 17+18 | Alegria (1990) |
| | 14.2 | F | NA | NA | Korichi (1988) |
| | 13.5 | M | NA | NA | Korichi (1988) |
| | 15.5 | F | 33 | 5 | Abaunza <i>et al.</i> (2003) |
| | 17.3 | M | 67 | 5 | Abaunza <i>et al.</i> (2003) |
| | 19 | F | 43 | 20 | Abaunza <i>et al.</i> (2003) |
| | 19 | M | 41 | 20 | Abaunza <i>et al.</i> (2003) |
| | 17 | F | 85 | 22 | Abaunza <i>et al.</i> (2003) |
| | 17 | M | 67 | 22 | Abaunza <i>et al.</i> (2003) |
| | 17.5 | F | 29 | 1 | Abaunza <i>et al.</i> (2003) |
| | 17.5 | M | 60 | 1 | Abaunza <i>et al.</i> (2003) |
| <i>Trisopterus minutus</i> | 13.28 | F | 1480 | 22 | Ilkyaz <i>et al.</i> (2018) |
| | 12.6 | M | | 22 | Ilkyaz <i>et al.</i> (2018) |
| | 11.5 | F | 1502 | 22 | Politou & Papaconstantinou (1991) |
| | 10.5 | M | 1011 | 22 | Politou & Papaconstantinou (1991) |
| | 13 | C | 887 | 17+18 | Froggia (1981) |
| | 14.5 | F | 11827 | 17+18 | Vallisneri <i>et al.</i> (2003) |
| | 13.3 | F | 626 | 22 | Metin <i>et al.</i> (2008) |
| | 12.5 | M | 809 | 22 | Metin <i>et al.</i> (2008) |

References for Table S1

- Abaunza, P., Gordo, L., Karlou-Riga, C., Murta, A., Eltink, ATGW., García Santamaría, MT., Gallo, E., 2003. Growth and reproduction of horse mackerel, *Trachurus trachurus* (Carangidae). *Reviews in Fish Biology and Fisheries*, 13 (1), 27–61. DOI: <https://doi.org/10.1023/A:1026334532390>
- Ak, O., Genç, Y., 2013. Growth and reproduction of the greater weever (*Trachinus draco* L., 1758) along the eastern coast of the Black Sea. *Journal of the Black Sea/Mediterranean Environment*, 19 (1), 95–110.
- Alegria, V., 1990. Size and age at first maturity in Horse mackerel (*Trachurus trachurus* L.) from the Adriatic Sea. *Rapport du Congrès de la Commission Internationale pour l'Exploration Scientifique de la Mer Méditerranée*, 32, 261.
- Akyol, O., 2011. Preliminary results on the cuttlefish *Sepia officinalis*, reproduction in Izmir Bay (Aegean Sea). *Journal of Fisheries Sciences.com*, 5 (2), 122–130. DOI: <https://doi.org/10.3153/jfsc.com.2011015>
- Al-Absawy, MA., 2010. The reproductive biology and the histological and ultrastructural characteristics in ovaries of the female gadidae fish *Merluccius merluccius* from the Egyptian Mediterranean water. *African Journal of Biotechnology*, 9 (17), 2544–2559.
- Ali, M., Smida, BEN., Hadhri, N., 2014. Reproductive cycle and size at first sexual maturity of common pandora *Pagellus erythrinus* (Sparidae) from the bay of Monastir (Tunisia, Central Mediterranean). *Annales, Series Historia Naturalis*, 16 (January), 31–40.
- Arrobas, I., Ribeiro-Cascalho, A., 1987. On the biology and fishery of *Aristeus antennatus* (Risso, 1816) in the south Portuguese coast. *Investigacion Pesquera*, 51 (1), 233–243. DOI: <https://doi.org/10.3989/scimar.1999.63n127>
- Bartulović, VB., Glamuzina, B., Conides, A., Gavrilović, Dulčić, J., 2006. Maturation, reproduction and recruitment of the sand smelt, *Atherina boyeri* (Risso, 1810) (Pisces: Atherinidae) in the estuary of Mala Neretva River (south-eastern Adriatic, Croatia). *Acta Adriatica*, 47 (1), 5–11. DOI: <https://doi.org/10.1111/j.1439-0426.2004.00560.x>
- Basilone, G., Ferreri, R., Aronica, S., Mazzola, S., Bonanno, A., Gargano, A., Pulizzi, M., Fontana, I., Giacalone, G., Calandrino, P., 2021. Reproduction and Sexual Maturity of European Sardine (*Sardina pilchardus*) in the Central Mediterranean Sea. *Frontiers in Marine Science*, 8, 999. DOI: <https://doi.org/10.3389/fmars.2021.715846>
- Belcari, P., Viva, C., Mori, M., Ranieri, SD., 2003. Fisheries and biology of *Aristeomorpha foliacea* (Risso, 1827) (Crustacea: Decapoda) in the Northern Tyrrhenian Sea (Western Mediterranean). *Journal of Northwest Atlantic Fishery Science*, 31, 195. DOI: <https://doi.org/10.2960/J.v31.a14>
- Benghali, S el A., Mouffok, S., Kherraz, A., Boutiba, Z., 2014. Reproductive Biology of Greater Forkbeard *Phycis blennoides* (Brünnich, 1768) in Western Algerian Coasts. *Journal of Biodiversity and Environmental Sciences*, 19 (June), 389–398.
- Beltrano, AM., Cannizzaro, L., Vitale, S., Milazzo, A., 2003. Aspetti della biologia riproduttiva di *Diplodus vulgaris* (Linnaeus 1758, Pisces: Sparidae) nello Stretto di Sicilia. *Biologia Marina Mediterranea*, 10, 287–290.
- Ben Jrad, L., Fehri-Bedoui, R., Ben Slama, S., Ben Hassine, OK., 2010. Reproduction et régime alimentaire de *Trigloporus lastoviza* (Triglidae) dans le golfe de Tunis (Méditerranée occidentale). *Cybium*, 34 (4), 353–365.
- Benchalel, W., Kara, MH., 2013. Age, growth and reproduction of the white seabream *Diplodus sargus sargus* (Linnaeus, 1758) off the eastern coast of Algeria. *Journal of*

- Applied Ichthyology*, 29 doi.org/10.1111/j.1439- (1), 64–70. DOI: <https://doi.org/10.1111/j.1439-0426.2012.02057.x>
- Bensahla Talet, A., Belaouda, D., Matoub, L., 1990. Période de ponte et taille a la première maturité sexuelle de *Boops boops* (Linné, 1758) des cotes Oranaises (Algérie). *Rapport de la Commission Internationale de la Mer Méditerranéenne*, 32, 260.
- Bentata-Keddar, I., Abid-kachour, S., Bouderbala, M., Mouffok, S., 2020. Reproduction and growth of Axillary seabream *Pagellus acarne* (Risso, 1827) (Perciformes Sparidae) from the western Algerian coasts. *Biodiversity Journal*, 11 (2), 351–358. DOI: [10.31396/Biodiv.Jour.2020.11.2.351.358](https://doi.org/10.31396/Biodiv.Jour.2020.11.2.351.358)
- Bettoso, N., Borme, D., Faresi, L., Aleffi, I., Orlando-Bonaca, M., Lipej, L. 2016. New insights on the biological parameters of the exploited cuttlefish *Sepia officinalis* L. (Mollusca: Cephalopoda) in the northern Adriatic Sea in relation to the main fishing gears employed. *Mediterranean Marine Science*, 17(1), 152–162. DOI: <https://doi.org/10.12681/mms.1311>
- Bettoso, N., Faresi, L., & Aleffi, F., 2006. Prime osservazioni sulle catture di *Sepia officinalis* (Mollusca, Cephalopoda) nel Golfo di Trieste. *Biologia Marina Mediterranea*, 13 (1), 806–808.
- Biagi, F., Cesarini, A., Sbrana, M., Viva, C., 1995. Reproductive biology and fecundity of *Merluccius merluccius* (Linnaeus, 1758) in the North Tyrrhenian Sea. *Rapport de la Commission Internationale de la Mer Méditerranéenne*, 34, 237.
- Bouaziz, A., Bennoui, A., Djabali, F., Maurin, C., 1998. Reproduction du merlu *Merluccius merluccius* (Linnaeus, 1758) dans la région de Bou-Ismaïl. *Cahiers Options Méditerranéennes*, 35, 109–117.
- Boudaya, L., Neifar, L., Rizzo, P., Badalucco, C., Bouain, A., Fiorentino, F., 2010. Age and growth of *Chelidonichthys lastoviza* (Bonnaterre, 1788) in Tunisia. *Rapport de la Commission Internationale de la Mer Méditerranéenne*, 39, 458.
- Cabiddu, S., Follesa, MC., Porcu, C., Cau, A., 2010. Gonad development and reproduction in the monoecious species *Chlorophthalmus Agassizi* (Actinopterygii: Aulopiformes: Central-Western Mediterranean). *Acta Ichthyologica et Piscatoria*, 40 (2), 167–177. DOI: [10.3750/AIP2010.40.2.10](https://doi.org/10.3750/AIP2010.40.2.10).
- Candelma, M., Marisaldi, L., Bertotto, D., Radaelli, G., Gioacchini, G., Santojanni, A., Colella, S., Carnevali, O., 2021. Aspects of reproductive biology of the European hake (*Merluccius merluccius*) in the Northern and Central Adriatic Sea (GSA 17-Central Mediterranean Sea). *Journal of Marine Science and Engineering*, 9, 389.
- Carbonara, P., Casciaro, L., Gaudio, P., Palmisano, M., Zupa, W., Spedicato, MT., 2013. Reproductive Cycle and Length At First Maturity of *Squilla mantis* in the Central-Western Mediterranean. p. 131–132 In: *44o Congresso della Società Italiana di Biologia Marina*.
- Carbonara, P., Porcu, C., Donnalioia, M., Pesci, P., Sion, L., Teresa, M., Zupa, W., Vitale, F., Cristina, M., 2019. The spawning strategy of European hake (*Merluccius merluccius*, L. 1758) across the Western and Central Mediterranean Sea. *Fisheries Research*, 219 (July), 105333. DOI: [10.1016/j.fishres.2019.105333](https://doi.org/10.1016/j.fishres.2019.105333).
- Carlucci, R., D’Onghia, G., Sion, L., Maiorano, P., Tursi, A., 2006. Selectivity parameters and size at first maturity in deep-water shrimps, *Aristaeomorpha foliacea* (Risso, 1827) and *Aristeus antennatus* (Risso, 1816), from the North-Western Ionian Sea (Mediterranean Sea). *Hydrobiologia*, 557 (1), 145–154. DOI: <https://doi.org/10.1007/s10750-005-1317-8>
- Ceriola, L., Ungaro, N., Totoda, F., 2006. Some information on the biology of *Illex coindetii* Verany, 1839 (Cephalopoda, Ommastrephidae) in the South-Western Adriatic Sea (Central Mediterranean). *Fisheries Research*, 82 (1–3), 41–49. DOI: <https://doi.org/10.1016/j.fishres.2006.08.024>.
- Chali-Chabane, F., 1988. Contribution a l’étude biologique et dynamique de la population de *Boops boops* de la baie de Bou-Ismaïl (Alger). ISMAL, Thèse de Magistère.
- Cherabi, O., 1987. Contribution à l’étude de la biologie du pageot commun *Pagellus erythrinus* (Linné, 1758) et à l’écologie de la famille des Sparidés de la baie d’Alger. Université des Sciences et de la Technologie Houari Boumedinne, Algeria, Thèse de Magister, 203 pp.
- Cherif, M., Zarrad, R., Gharbi, H., Missaoui, H., Jarboui, O., 2007. Some biological parameters of the red mullet, *Mullus barbatus* L., 1758, from the Gulf of Tunis. *Acta Adriatica*, 48 (2), 131–144.
- Cikeš Keč, V., Zorica, B., 2012. The reproductive traits of *Scomber japonicus* (Houttuyn, 1782) in the Eastern Adriatic Sea. *Journal of Applied Ichthyology*, 28 (1), 15–21.
- Colloca, F., Cardinale, M., Ardizzone, GD., 1997. Biology, spatial distribution and population dynamics of *Lepidotrigla cavillone* (Pisces: Triglidae) in the Central Tyrrhenian Sea. *Fisheries Research*, 32, 21–32.
- Colloca, F., Cardinale, M., Marcello, A., Ardizzone, GD., 2003. Tracing the life history of red gurnard (*Aspitrigla cuculus*) using validated otolith annual rings. *Journal of Applied Ichthyology*, 19 (1), 1–9. DOI: <https://doi.org/10.1046/j.1439-0426.2003.00342.x>
- Cuccu, D., Mereu, M., Cau, A., Pesci, P., Cau, A., 2013. Reproductive development versus estimated age and size in a wild Mediterranean population of *Octopus vulgaris* (Cephalopoda : Octopodidae). *Journal of the Marine Biological Association of the United Kingdom*, 93 (3), 843–849. DOI: [10.1017/S0025315412000203](https://doi.org/10.1017/S0025315412000203).
- D’Onghia, G., Sion, L., Maiorano, P., Mytilineou, C., Dalessandro, S., Carlucci, R., Desantis, S., 2006. Population biology and life strategies of *Chlorophthalmus agassizii* Bonaparte, 1840 (Pisces : Osteichthyes) in the Mediterranean Sea. *Marine Biology*, 149, 435–446. DOI: [10.1007/s00227-005-0231-y](https://doi.org/10.1007/s00227-005-0231-y).
- Del Árbol, J., Rey, J., Gil de Sola, L., 2004. Reproductive aspects of red mullet (*Mullus barbatus*) in the Alboran Sea (western Mediterranean). *Rapport de la Commission Internationale de la Mer Méditerranéenne*, 37, 342. Retrieved from http://www.ciesm.org/online/archives/abstracts/pdf/37/comites/pg_0342.htm
- Demirci, S., Demirci, A., Simsek, E., 2018. Spawning season and size at maturity of a migrated fish, Randall’s threadfin bream (*Nemipterus randalli*) in Iskenderun Bay, northeastern Mediterranean, Turkey. *Fresenius Environmental Bulletin*, 27 (1), 503–507.
- Deval, MC., 2019. Population Dynamics and Biological Patterns of Commercial Crustacean Species in the Antalya Bay, Eastern Mediterranean Sea : III . The Giant Red Shrimp *Aristaeomorpha foliacea* Risso, 1827. *Turkish Journal of*

- Fisheries and Aquatic Sciences*, 20 (4), 311–323.
- Derbal, F., Kara, MH., 2007. Cycle sexuel du corb *Sciaena umbra* (Sciaenidae) du littoral d'Annaba (Algerie est). *Rapport de la Commission Internationale de la Mer Méditerranéenne*, 38, 459.
- Dhieb K., Ghorbel M., Bouain A., 2005. Age et croissance du serre *Pomatomus saltatrix* (Pomatomidae) du golfe de Gabès (Tunisie). *Mésogée*, 61, 43-50.
- Donnalioia, M., Gaudio, P., Bitetto, I., Casciaro, L., Zupa, W., Intini, S., Spedicato, MT., 2010. Sexual maturity of the horned octopus *Eledone cirrhosa* (Lamarck , 1798). *Biologia Marina Mediterranea*, 17 (1), 336–337.
- Duysak, Ö., Özcan, G., Çek, Ş., Türeli, C., 2014. Reproductive biology of the common cuttlefish (*Sepia officinalis* Linnaeus , 1758) in Iskenderun Bay (Northeastern Mediterranean Sea), *NISCAIR-CSIR*, 43 (September), 1689–1694.
- Emre, Y., Balik, I., Sumer, C., Oskay, DA., Yesilcimen, HO., 2010. Age, growth, length-weight relationship and reproduction of the striped seabream (*Lithognathus mormyrus* L., 1758) (Sparidae) in the Beymelek Lagoon (Antalya, Turkey). *Turkish Journal of Zoology*, 34 (1), 93–100. DOI: <https://doi.org/10.3906/zoo-0808-13>
- Engin, S., Seyhan, K., 2009. Age, growth, sexual maturity and food composition of *Sciaena umbra* in the south-eastern Black Sea, Turkey. *Journal of Applied Ichthyology*, 25 (1), 96–99. DOI: <https://doi.org/10.1111/j.1439-0426.2008.01173.x>
- Frogliola, C., Zoppini, AM., 1981. Observations on growth of *Trisopterus minutus capelanus* (Risso) (Pisces, Gadidae) in the central Adriatic Sea. *Rapport de la Commission Internationale de la Mer Méditerranéenne*, 27, 57-60.
- Frogliola, C., 1981. Summary of biological parameters on *Trisopterus minutus capelanus* (Risso) in the Adriatic. *FAO Fisheries Reports*, 253, 97-100.
- Garcia-Rodriguez, M., Esteban, A., 1995. Algunos aspectos sobre la biología y pesca de la merluza mediterranea *Merluccius merluccius* (Linnaeus, 1758) en la Bahía de Santa Pola (sureste de la península Iberica). *Boletín - Instituto Español de Oceanografía* 11, 3–25.
- Ghorbel, M., Ktari, MH., 1982. Etude préliminaire de la reproduction de *Pagellus erythrinus* des eaux tunisiennes. *Bulletin de l'Institut National des Sciences et Technologie de la Mer*, 9, 23-38.
- Gorelli, G., Company, JB., Bahamón, N., Sardà, F., 2017. Improving codend selectivity in the fishery of the deep-sea red shrimp *Aristeus antennatus* in the northwestern Mediterranean Sea. *Scientia Marina*, 81 (3), 381–386.
- Grau, A., Linde, M., Grau, AM., 2009. Biología reproductiva de la especie vulnerable *Sciaena umbra*; Linnaeus, 1758 (Pisces: Sciaenidae). *Scientia Marina*, 73 (1), 67–81. DOI: <https://doi.org/10.3989/scimar.2009.73n1067>
- Grubisic, L., Mrcelic, GJ., Skakelj, N., Katavic, I., Ticina, V., Sliskovic, M., 2007. Reproductive biology of pink dentex *Dentex gibbosus* (Rafinesque) from the Adriatic Sea, Croatia. *Aquaculture Research*, 38 (9), 991–1001. DOI: <https://doi.org/10.1111/j.1365-2109.2007.01774.x>
- Hammoud, V., Saad, A., 2007. Reproductive biology of *Diplodus vulgaris* (family Sparidae) in the Syrian Coast. In *Rapport du Congrès de la Commission Internationale pour l'Exploration Scientifique de la Mer Méditerranéenne*, Vol. 38, 495.
- Hernandez, VA. 1989. Study on the age and growth of bogue (*Boops boops* L.) from the central Adriatic Sea. *Cybiurn*, 13, 281–289.
- Hoşsucu, B., Çakır, DT., 2003. Some parameters about population biology of the common pandora (*Pagellus erythrinus* L., 1758) (Sparidae) in the Edremit Bay (Turkey). *Su Ürünleri Dergisi*, 20, 3–4. Retrieved from <http://jfas.ege.edu.tr/>
- İhsanoglu, MA., İşmen, A., 2020. Biological traits and population dynamic of *Parapenaeus longirostris* (Lucas , 1846) in the Marmara Sea , Turkey. *Ege Journal of Fisheries and Aquatic Sciences*, 37 (3), 275–283. DOI: 10.12714/egejfas.37.3.10.
- İlkyaz, AT., Metin, G., Soykan, O., Kinacigil, HT., 2010. Age , growth and sexual development of solenette , *Buglossidium luteum* (Risso , 1810), in the central Aegean Sea. *Journal of Applied Ichthyology*, 26, 436–440. DOI: 10.1111/j.1439-0426.2009.01382.x.
- İlkyaz, AT., Metin, G., Soykan, O., Kinacigil, HT., 2018. Spawning season, first maturity length and age of 21 fish species from the Central Aegean Sea, Turkey. *Turkish Journal of Fisheries and Aquatic Sciences*, 126, 119–126. DOI: <https://doi.org/10.4194/1303-2712-v18>
- İlkyaz, AT., Metin, G., Soykan, O., Kinacigil, HT., 2010. Growth and reproduction of large-scaled gurnard (*Lepidotrigla cavillone* Lacepède, 1801) (Triglidae) in the central Aegean Sea, eastern Mediterranean. *Turkish Journal of Zoology*, 34, 471–478. DOI: <https://doi.org/10.3906/zoo-0906-47>
- İsmen, A., 2003. Maturity and fecundity of lizardfish (*Saurida undosquamis* Richardson , 1848) in Iskenderun Bay (Eastern Mediterranean). *Turkish Journal of Zoology*, 27, 231–238.
- Jukiü, S., Piccinetti, C., 1981. Quantitative and qualitative characteristics of demersal resources in the Adriatic Sea with some population dynamic estimates. *FAO Fisheries Reports*, 253, 73-91.
- Kaim-Malka, RA., Jacob, SS., 1985. Donnees preliminaires sur la biologie de trois especes de Scorpaenidae de la region de Marseille. *Rapport de la Commission Internationale de la Mer Méditerranéenne*, 29, 45–47.
- Kallianiotis, A., 1992. Biology and population structure of bogue [*Boops boops* (L.)] populations in the marine area of Crete. Doctorate dissertation, University of Crete, Greece.
- Kallianiotis, A., Torre, M., Argyri, A., 2005. Age, growth, mortality, reproduction, and feeding habits of the striped seabream, *Lithognathus mormyrus* (Pisces : Sparidae), in the coastal waters of the Thracian Sea , Greece. *Scientia Marina*, 69 (3), 391-404. DOI: <https://doi.org/10.3989/scimar.2005.69n3391>
- Kapiris, K., Thessalou-Legaki, M., 2009. Comparative reproduction aspects of the deep-water shrimps *Aristaeomorpha foliacea* and *Aristeus antennatus* (Decapoda, Aristeidae) in the Greek Ionian Sea (Eastern Mediterranean). *International Journal of Zoology*, 9 pp. DOI: <https://doi.org/10.1155/2009/979512>
- Karlou-Riga, C., 1995. Biology and dynamics of the *Trachurus* species (Pisces, Carangidae) in the Saronikos Gulf. PhD Thesis, Aristotle University of Thessaloniki, Greece, 296

- pp.
- Koc, HT., Cakir, D., Aka, Z., 2002. Age, growth, sex-ratio, spawning season and mortality of annular bream, *Diplodus annularis* Linnaeus (1758) (Pisces: Sparidae) in edremit gulf (Aegean sea). *Pakistan Journal of Biological Sciences*.
- Korichi, HS., 1988. Contribution a l'étude biologiques des deux espèces de saurels: *Trachurus trachurus* et *T. mediterraneus* et de la dynamique de *T. trachurus* en baie de Bou-Ismaïl. MSc Thesis, ISMAL, 203 pp.
- Kousteni, V., Anastasopoulou, A., Mytilineou, C., 2019. Life-history traits of the striped red mullet *Mullus surmuletus* (Linnaeus, 1758) in the south Aegean Sea (eastern Mediterranean). *Journal of the Marine Biological Association of the United Kingdom*, 1–11.
- Kousteni, V., Kontopoulou, M., Megalofonou, P., 2010. Sexual maturity and fecundity of *Scyliorhinus canicula* (Linnaeus, 1758) in the Aegean Sea. *Marine Biology Research*, 6 (4), 390–398.
- Krstulović Šifner, S., Damjanović, T., Isajlović, I., 2018. Distribution, length-weight relationships and reproductive characteristics of *Sepia orbignyana* (Férussac, 1826) in the Northern and Central Adriatic Sea. *Cahiers de biologie marine*, 59, 43–51. DOI: 10.21411/CBM.A.B9291A6E.
- Ktari, MH., Bouain, A., Quignard, JP., 1978. Régime alimentaire des loups *Dicentrarchus labrax* (Linné, 1778) et *Dicentrarchus punctatus* (Bloch, 1892) des côtes tunisiennes. *Bulletin de l'Institut National Scientifique et Technique d'Océanographie et E Pêche de Salambo*, 5, 5–15.
- Lamrini, A., 2010. Croissance et reproduction du rouget barbet de roche (*Mullus surmuletus* L. 1758) dans la baie de M'Diq (Maroc). In *Rapport du Congrès de la Commission Internationale pour l'Exploration Scientifique de la Mer Méditerranée*, Vol. 39, 565.
- Lolas, A., Vafidis, D., 2021. Population Dynamics, Fishery, and Exploitation Status of Norway Lobster (*Nephrops norvegicus*) in Eastern Mediterranean. *Water*, 13 (289).
- Lteif, M., Jemaa, S., Mouawad, R., Khalaf, G., Lelli, S., Fakhri, M., 2020. Population biology of the common pandora, *Pagellus erythrinus* (Linnaeus, 1758) along the Lebanese coast, Eastern Mediterranean. *The Egyptian Journal of Aquatic Research*, 46 (1), 57–62. DOI: 10.1016/j.ejar.2020.01.002.
- Mahdi, H., Talet, LB., Boutiba, Z., 2018. Reproductive Biology of the Common Pandora *Pagellus erythrinus* (Linnaeus, 1758) of Oran Bay (Algerian west coasts). *Turkish Journal of Fisheries and Aquatic Sciences*, 18, 1–7. DOI: 10.4194/1303-2712-v18.
- Maiorano, P., D'Onghia, G., Capezzuto, F., Sion, L., 2002. Life-history traits of *Plesionika martia* (Decapoda: Caridea) from the eastern-central Mediterranean Sea. *Marine Biology*, 141, 527–539. DOI: 10.1007/s00227-002-0851-4.
- Manasirli, M., Avsar, D., 2008. Reproductive biology of female *Parapaeneus longirostris* (Lucas, 1846) (Decapoda, Caridea) In Babad' Illiman' I Bight in the Northeastern Mediterranean. *Crustaceana*, 81 (3), 289–298.
- Mandić, M., Regner, S., Đurović, M., Joksimović, A., Pešić, A., Krpo-Četković, J., 2015. Distribution and abundance of eggs and estimation of spawning stock biomass of anchovy, *Engraulis encrasicolus* (Linnaeus, 1758), in the south-eastern Adriatic Sea. *Journal of the Marine Biological Association of the United Kingdom*, 95 (5), 1051–1059.
- Marriott, AL., Latchford, JW., McCarthy, ID., 2010. Population biology of the red gurnard (*Aspitrigla cuculus* L.; Triglidae) in the inshore waters of Eastern Anglesey and Northwest Wales. *Journal of Applied Ichthyology*, 26 (4), 504–512. DOI: <https://doi.org/10.1111/j.1439-0426.2010.01455.x>
- Matić-Skoko, S., Kraljević, M., Dulčić, J., Jardas, I., 2007. Age, growth, maturity, mortality, and yield-per-recruit for annular sea bream (*Diplodus annularis* L.) from the eastern middle Adriatic Sea. *Journal of Applied Ichthyology*, 23 (2), 152–157. DOI: <https://doi.org/10.1111/j.1439-0426.2006.00816.x>
- Mehanna, SF., 2009. Growth, mortality and spawning stock biomass of the striped red mullet *Mullus surmuletus*, in the Egyptian mediterranean waters. *Mediterranean Marine Science*, 10 (2), 5–17. DOI: <https://doi.org/10.12681/mms.105>
- Mente, E., Karapanagiotidis, IT., Logothetis, P., Vafidis, D., Malandrakis, E., Neofitou, N., Stratakos, A., 2009. The reproductive cycle of Norway lobster. *Journal of Zoology*, 278 (4), 324–332. DOI: <https://doi.org/10.1111/j.1469-7998.2009.00579.x>
- Metin, G., Akyol, O., 2003. A preliminary study on the determination of batch fecundity of annular sea bream (*Diplodus annularis* L., 1758) in Izmir Bay (Aegean Sea). *Journal of Fisheries and Aquatic Sciences*, 20, 205–209.
- Metin, G., Ilkyaz, AT., Kinacigil, HT., 2008. Growth, mortality, and reproduction of poor cod (*Trisopterus minutus* Linn., 1758) in the central Aegean sea. *Turkish Journal of Zoology*, 32 (1), 43–51. DOI: <https://doi.org/10.1111/j.1439-0426.2006.00807.x>
- Metin, G., İlkyaz, AT., Soykan, O., Kinacigil, HT., 2011. Biological characteristics of the common pandora, *Pagellus erythrinus* (Linnaeus, 1758), in the central Aegean Sea. *Turkish Journal of Zoology*, 35 (3), 307-315. DOI: <https://doi.org/10.3906/zoo-0904-4>
- Mir-Arguimbau, J., Balcells, M., Raventós, N., Martín, P., Sabatés, A., 2020. Growth, reproduction and their interplay in blue whiting (*Micromesistius poutassou*, Risso, 1827) from the NW Mediterranean. *Fisheries Research*, 227 (September 2019), 105540. DOI: 10.1016/j.fishres.2020.105540.
- Mohdeb, R., Kara, H., 2014. Age, growth and reproduction of the Morocco dentex *Dentex maroccanus* of the eastern coast of Algeria. *Journal of the Marine Biological Association of the United Kingdom*, (1), 1–10. DOI: 10.1017/S0025315414001945.
- Morales-Nin, B., Moranta, J., 1997. Life history and fishery of the common dentex (*Dentex dentex*) in Mallorca (Balearic Islands, western Mediterranean). *Fisheries Research*, 30, 67–76. DOI: [https://doi.org/10.1016/S0165-7836\(96\)00560-7](https://doi.org/10.1016/S0165-7836(96)00560-7)
- Mouine, N., Francour, P., Ktari, MH., Chakroun-Marzouk, N., 2007. The reproductive biology of *Diplodus sargus sargus* in the Gulf of Tunis (central Mediterranean). *Scientia Marina*, 71 (3), 461–469. DOI: <https://doi.org/10.3989/scimar.2007.71n3461>
- Mouine, N., Francour, P., Ktari, MH., Chakroun-Marzouk, N., 2012. Reproductive biology of four *Diplodus* species *Diplodus vulgaris*, *D. annularis*, *D. sargus sargus* and *D.*

- puntazzo* (Sparidae) in the Gulf of Tunis (central Mediterranean). *Journal of the Marine Biological Association of the United Kingdom*, 92 (3), 623–631. DOI: <https://doi.org/10.1017/S0025315411000798>
- Mugahid, AR., Hashem, MT., 1982. Some aspects of the fishery biology of hake (*Merluccius merluccius*) in the Libyan waters. *Bulletin of the Institute of Oceanography and Fish*, 8, 145–162.
- Muñoz, M., Casadevall, M., 2002. Reproductive indices and fecundity of *Helicolenus dactylopterus dactylopterus* (Teleostei: Scorpaenidae) in the Catalan Sea (western Mediterranean). *Journal of the Marine Biological Association of the United Kingdom*, 82 (6), 995–1000. DOI: <https://doi.org/10.1017/S0025315402006513>.
- Nouacer, S., Kara, MH., 2001. Taille a la premiere maturite sexuelle, periode de ponte et relation taille-poids chez le sparailon *Diplodus annularis* (L. 1758) des cottes d'Annaba. *Rapport de la Commission Internationale de la Mer Méditerranée*, 36, 408.
- Önsoy, B., Salman, A., 2009. Reproductive biology of the common cuttlefish *Sepia officinalis* L. (Sepiida: Cephalopoda) in the Aegean Sea. *Turkish Journal of Veterinary and Animal Science*, 29, 613–619. Retrieved from <http://mistug.tubitak.gov.tr/bdyim/abs.php?dergi=vet&rak=0303-14>
- Ordines, F., Massutí, E., Guijarro, B., Mas, R., 2006. Diamond vs. square mesh codend in a multi-species trawl fishery of the western Mediterranean: Effects on catch composition, yield, size selectivity and discards. *Aquatic Living Resources*, 19 (4), 329–338. DOI: <https://doi.org/10.1051/alr:2007003>.
- Papaconstantinou, C., 1982. On the biology of the *Lepidotrigla cavillone* (Family Triglididae) of the Greek Seas. *Thalassographica*, 5, 33–59.
- Papaconstantinou, C., Mytilineou, C., Panos, T., 1988. Aspects of the life history and fishery of Red Pandora, *Pagellus erythrinus* (Sparidae) off western Greece. *Cybium*, 12 (4), 267–280.
- Politou, CY., Papaconstantinou, C., 1991. Population biology of *Trisopterus minutus capelanus* (Gadidae) from the eastern coast of Greece. *Cybium*, 15, 69–81.
- Ramadan, FA., Ali, RA., Ali, S., Gaballah, MSM., 2017. Length weight relationship, condition factor and reproductive biology of the Red Mullet *Mullus baebatus* (Linnaeus, 1758) in Darna coastal water, eastern Libya. *Bulletin de l'Institut National des Sciences de la Mer (INSTM Salammbô)*, 20 (December).
- Recasens, L., Lombarte, A., Morales-Nin, B., Torres, GJ., 1998. Spatiotemporal variation in the population structure of the European hake in the NW Mediterranean. *Journal of fish biology*, 53 (2), 387–401.
- Recasens, L., Chiericoni, V., Belcari, P., 2008. Patrón reproductivo y fecundidad de la merluza (*Merluccius merluccius* (Linnaeus, 1758)) en el Mediterráneo occidental. *Scientia Marina*, 72 (4), 721–732. DOI: <https://doi.org/10.3989/scimar.2008.72n4721>
- Relini, L. O., Zamboni, A., Fiorentino, F., Massi, D., 1998. Reproductive patterns in Norway lobster *Nephrops norvegicus* (L.), (Crustacea Decapoda Nephropidae) of different Mediterranean areas. *Scientia Marina*, 62 (1), 25–41. DOI: <https://doi.org/10.3989/scimar.1998.62s125>
- Reñones, O., Massuti, E., Oliver, P., 1995a. Some aspects of the reproduction pattern of hake (*Merluccius merluccius*) in the Balearic Islands. *Rapport de la Commission Internationale de la Mer Méditerranée*, 34, 255.
- Reñones, O., Massuti, E., Morales-Nin, B., 1995b. Life history of the red mullet *Mullus surmuletus* from the bottom-trawl fishery off the Island of Majorca (north-west Mediterranean). *Marine Biology*, 123 (3), 411–419.
- Rey, J., de Sola, LG., Massutí, E., 2005. Distribution and biology of the blackmouth catshark *Galeus melastomus* in the Alboran Sea (Southwestern Mediterranean). *Journal of Northwest Atlantic Fishery Science*, 35 (November 2004), 215–223. DOI: <https://doi.org/10.2960/j.v35.m484>.
- Saied, A., Kartas, F., 1988. Sexualité et reproduction du sparailon *Diplodus annularis* des îles Kerkennah (Sud-Est Tunisien). *Rapport de la Commission Internationale de la Mer Méditerranée*, 31, 270.
- Salman, A., 2014. Fecundity, spawning strategy and oocyte development of shortfin squid *Alloteuthis media* (Myopsida: Loliginidae) in the Eastern Mediterranean. *Cahiers de biologie marine*, 55 (2).
- Salman, A., 2015. Reproductive biology of the Elegant Cuttlefish (*Sepia elegans*) in the Eastern Mediterranean. *Turkish Journal of Fisheries and Aquatic Sciences*, 15, 265–272. DOI: <https://doi.org/10.4194/1303-2712-v15>.
- Sellami, A., Brusle, J., 1979. Contribution a l'étude de la peche, de la sexualite et de la reproduction de la mendole *Maena maena* (Linnaeus 1758), teleosteen maenide des tunisiennes. *Memorie di Biologia Marina e di Oceanografia*, 94, 91–109.
- Sinovic, G., Zorica, B., 2006. Reproductive cycle and minimal length at sexual maturity of *Engraulis encrasicolus* (L.) in the Zrmanja River estuary (Adriatic Sea, Croatia). *Estuarine, Coastal and Shelf Science*, 69, 439–448. DOI: [10.1016/j.ecss.2006.04.003](https://doi.org/10.1016/j.ecss.2006.04.003).
- Somarakis, S., Machias, A., 2002. Age, growth and bathymetric distribution of red pandora (*Pagellus erythrinus*) on the Cretan shelf (eastern Mediterranean). *Journal of the Marine Biological Association of the United Kingdom*, 82 (1), 149–160. DOI: <https://doi.org/10.1017/S002531540200526X>
- Soykan, O., İlkyaz, AT., Metin, G., Kinacıgil, HT., 2010. Growth and reproduction of blotched picarel (*Spicara maena* Linnaeus, 1758) in the central Aegean Sea, Turkey. *Turkish Journal of Zoology*, 34 (4), 453–459. DOI: <https://doi.org/10.3906/zoo-0903-29>
- Soykan, O., İlkyaz, AT., Metin, G., Kinacıgil, HT., 2015. Growth and reproduction of *Boops boops*, *Dentex macrophthalmus*, *Diplodus vulgaris*, and *Pagellus acarne* (Actinopterygii: Perciformes: Sparidae) from east-central Aegean Sea, Turkey. *Acta Ichthyologica et Piscatoria*, 45 (1), 39–55. DOI: <https://doi.org/10.3750/AIP2015.45.1.05>
- Soykan, O., İlkyaz, AT., Metin, G., Kinacıgil, HT., 2015. Age, growth and reproduction of European hake (*Merluccius merluccius* (Linn., 1758)) in the Central Aegean Sea, Turkey. *Journal of the Marine Biological Association of the United Kingdom*, 95 (4), 829–837. DOI: <https://doi.org/10.1017/S002531541400201X>
- Türkmen, M., Akyurt, İ., 2003. Growth characteristics, sex inversion and mortality rates of Striped Sea Bream, *Lithognathus mormyrus* L., in İskenderun Bay. *Turkish Journal*

- Zoology*, 27, 323–329.
- Ungaro, N., Marano, G., Auteri, R., Voliani, A., Massutí, E., García-Rodríguez, M., Osmani, K., 2002. Distribution, abundance and biological features of anglerfish (*Lophius piscatorius* and *Lophius budegassa*) (Osteichthyes : Lophiiformes) in the Mediterranean Sea. *Scientia Marina*, 66 (2), 55–63. DOI: <https://doi.org/10.3989/scimar.2002.66s255>
- Vallisneri, M., Piccinetti, G.M., Piccinetti, C., 2003. Biologia riproduttiva di *Trisopterus minutus capelanus* (Lacepede 1800) nel mar Adriatico. *Biologia Marina Mediterranea*, 10 (2), 296–299.
- Vallisneri, M., Scapolatempo, M., Tommasini, S., 2006. Reproductive biology of *Merlangius merlangus* L. (Osteichthyes, Gadidae) in the northern Adriatic Sea. *Acta Adriatica*, 47 (2), 159–165. DOI: <https://doi.org/10.1080/11250000109356393>.
- Vassilopoulou, V., Papaconstantinou, C., 1992. Age, growth and mortality of the red porgy, *Pagrus pagrus*, in the eastern Mediterranean Sea (Dodecanese, Greece). *Vie et Milieu / Life & Environment, Observatoire Océanologique - Laboratoire Arago*, 42 (1), 51–55.
- Vassilopoulou, V., Papaconstantinou, C., 1995. Sexual maturity of the striped mullet (*Mullus surmuletus*) in the Aegean Sea. In *Rapport du Congrès de la Commission Internationale pour l'Exploration Scientifique de la Mer Méditerranée*, Vol. 34, 261 pp.
- Vassilopoulou, V., Mytilineou, C., Papaconstantinou, C., 1986. Preliminary biological data on the red pandora (*Pagellus erythrinus* L., 1758) in the Greek seas. *FAO Fisheries Reports*, 361 (January), 107–112.
- Vassilopoulou, V., Papaconstantinou, C., 1992. Aspects of the biology and dynamics of red mullet (*Mullus barbatus*) in the Aegean Sea. *FAO Fisheries Reports*, 477 (January), 115–126.
- Velasco, E.M., Jiménez-Tenorio, N., Del Arbol, J., Bruzón, M. A., Baro, J., Sobrino, I., 2010. Age, growth and reproduction of the axillary seabream, *Pagellus acarne*, in the Atlantic and Mediterranean waters off southern Spain. *Journal of the Marine Biological Association of the United Kingdom*, 91 (6), 1–11. DOI: <https://doi.org/10.1017/S0025315410000305>.
- Vitale, S., Arkhipkin, A., Cannizzaro, L., Scalisi, M., 2011. Life history traits of the striped seabream *Lithognathus mormyrus* (Pisces, Sparidae) from two coastal fishing grounds in the Strait of Sicily. *Journal of Applied Ichthyology*, 27 (4), 1086–1094. DOI: <https://doi.org/10.1111/j.1439-0426.2011.01775.x>
- Vitale, S., Cannizzaro, L., Bono, G., Beltrano, A. M., Milazzo, A., Cusumano, S., 2003. Maturità sessuale, età e accrescimento della Mormora, *Lithognathus mormyrus* (L., 1758) (pisces; Sparidae) costa sud occidentale della Sicilia. *Biologia Marina Mediterranea*, 10 (2), 233–241.
- Zaki, M.I., Abdallah, M., Abou-Zaid, F., Salem, S., 2004. Reproductive biology of *Diplodus vulgaris* in Egyptian waters. *Rapport de la Commission Internationale de la Mer Méditerranée*, 37, 461.
- Zaki, M.I., Baghdadi, H.H., El-Gharabawy, M.M., El-Greisy, Z.A., 2001. Reproductive biology of *Diplodus sargus* (Family: Sparidae) in the Mediterranean environment. *Rapport de la Commission Internationale de la Mer Méditerranée*, 36, 336.
- Zoubi, A., 2001. Biologie de reproduction des principales espèces démersales de la méditerranée marocaine. *Rapport de la Commission Internationale de la Mer Méditerranée*, 36, 340.

Table S2. Bottom trawl selectivity review. Selectivity parameters obtained from literature for diamond, T90 and square mesh codends. Year: time when the experiment was conducted; Area: geographical area where the experiment was conducted; GSA: GFCM Geographical Sub-Areas (GSA) where experiment was conducted; Species: Species on which the selectivity experiment was conducted; FAO code: species code as reported by FAO; MC: mesh configuration (DM, diamond; SM, square-mesh; HEX: hexagonal-mesh; T90: mesh turned 90 degree); NMS: nominal mesh size in the codend; MMS: measured mesh size in the codend; L50: length of fish that has a 50% probability of being retained or escaping after entering the codend; SR: difference in length between the fish that has a 75% probability of retention and that with a 25% probability of retention. SF: selection factor; MS-calc: mesh size used for calculation.

| References | Years | Area | GSA | Species | FAO Code | MC | NMS | MMS | L50 | SR | SF | MS-calc |
|-------------------------------|-------|------------------------|-----|--------------------------------|----------|-----|-----|-------|-------|------|------|---------|
| Baino, 1998 | 1997 | Central Tyrrhenian Sea | 9 | <i>Alloteuthis media</i> | OUM | DM | 40 | NA | 4.52 | 1.74 | 1.13 | 40 |
| Petrakis <i>et al.</i> , 2004 | 2004 | Aegean Sea | 22 | <i>Alloteuthis media</i> | OUM | DM | 40 | NA | 4.39 | 1.28 | 1.1 | 40 |
| Sala & Luchetti 2011 | 2005 | Central Adriatic Sea | 17 | <i>Alloteuthis media</i> | OUM | DM | 48 | 46.5 | 4.47 | 1.18 | 0.96 | 46.5 |
| Sala & Luchetti 2011 | 2005 | Central Adriatic Sea | 17 | <i>Alloteuthis media</i> | OUM | DM | 48 | 46.5 | 3.68 | 1.37 | 0.79 | 46.5 |
| Sala & Luchetti 2011 | 2005 | Central Adriatic Sea | 17 | <i>Alloteuthis media</i> | OUM | DM | 56 | 56.75 | 5.17 | 2.49 | 0.91 | 56.75 |
| Sala & Luchetti 2011 | 2005 | Central Adriatic Sea | 17 | <i>Alloteuthis media</i> | OUM | DM | 56 | 56.1 | 4.5 | 1.84 | 0.8 | 56.1 |
| Belcari <i>et al.</i> , 2007 | 2004 | North Tyrrhenian Sea | 9 | <i>Argentina sphyraena</i> | ARY | DM | 40 | NA | 11.3 | 4.23 | 2.83 | 40 |
| Belcari <i>et al.</i> , 2007 | 2004 | North Tyrrhenian Sea | 9 | <i>Argentina sphyraena</i> | ARY | DM | 60 | NA | 23.12 | 9.95 | 3.85 | 60 |
| Petrakis <i>et al.</i> , 2004 | 2004 | North Tyrrhenian Sea | 9 | <i>Argentina sphyraena</i> | ARY | DM | 40 | NA | 11.95 | 2.12 | 2.99 | 40 |
| Carlucci <i>et al.</i> , 2006 | 2002 | Aegean Sea | 22 | <i>Aristaeomorpha foliacea</i> | ARS | DM | 50 | NA | 1.62 | 0.63 | 0.32 | 50 |
| Carlucci <i>et al.</i> , 2006 | 2002 | Ionian Sea | 19 | <i>Aristaeomorpha foliacea</i> | ARS | DM | 60 | NA | 2.12 | 1.07 | 0.35 | 60 |
| Deval <i>et al.</i> , 2009 | 2007 | North Levant | 24 | <i>Aristaeomorpha foliacea</i> | ARS | DM | 44 | 43.46 | 1.85 | 0.58 | 0.43 | 43.46 |
| Deval <i>et al.</i> , 2009 | 2007 | North Levant | 24 | <i>Aristaeomorpha foliacea</i> | ARS | SM | 40 | 37.55 | 1.86 | 0.4 | 0.5 | 37.55 |
| Deval <i>et al.</i> , 2016 | 2016 | Eastern Mediterranean | 24 | <i>Aristaeomorpha foliacea</i> | ARS | DM | 50 | NA | 2.17 | 0.71 | 0.43 | 50 |
| Deval <i>et al.</i> , 2016 | 2016 | Eastern Mediterranean | 24 | <i>Aristaeomorpha foliacea</i> | ARS | T90 | 50 | NA | 2.33 | 0.84 | 0.47 | 50 |
| D'Onghia <i>et al.</i> , 1998 | 1996 | Ionian Sea | 19 | <i>Aristaeomorpha foliacea</i> | ARS | DM | 60 | NA | 1.95 | 1.12 | 0.33 | 60 |
| Ragonese <i>et al.</i> , 1994 | 1994 | NA | NA | <i>Aristaeomorpha foliacea</i> | ARS | DM | 40 | NA | 1.77 | | 0.44 | 40 |
| Ragonese <i>et al.</i> , 1994 | 1994 | NA | NA | <i>Aristaeomorpha foliacea</i> | ARS | DM | 48 | NA | 2.01 | 0.42 | 0.42 | 48 |
| Ragonese <i>et al.</i> , 1994 | 1994 | NA | NA | <i>Aristaeomorpha foliacea</i> | ARS | DM | 56 | NA | 2.28 | 0.41 | 0.41 | 56 |
| Ragonese <i>et al.</i> , 2002 | 1993 | Strait of Sicily | 16 | <i>Aristaeomorpha foliacea</i> | ARS | DM | 20 | NA | 1.82 | 0.56 | 0.46 | 40 |
| Ragonese <i>et al.</i> , 2002 | 1993 | Strait of Sicily | 16 | <i>Aristaeomorpha foliacea</i> | ARS | DM | 24 | NA | 2.07 | 0.58 | 0.43 | 48 |
| Ragonese <i>et al.</i> , 2002 | 1993 | Strait of Sicily | 16 | <i>Aristaeomorpha foliacea</i> | ARS | DM | 28 | NA | 2.33 | 1.29 | 0.42 | 56 |
| Sala <i>et al.</i> , 2015 | 2006 | South Tyrrhenian Sea | 10 | <i>Aristaeomorpha foliacea</i> | ARS | DM | 44 | 45.15 | 2 | 1.41 | 0.44 | 45.15 |
| Sala <i>et al.</i> , 2015 | 2006 | South Tyrrhenian Sea | 10 | <i>Aristaeomorpha foliacea</i> | ARS | SM | 44 | 45.95 | 2.07 | 0.26 | 0.45 | 45.95 |
| Sala <i>et al.</i> , 2015 | 2006 | South Tyrrhenian Sea | 10 | <i>Aristaeomorpha foliacea</i> | ARS | DM | 54 | 54.7 | 2.15 | 0.87 | 0.39 | 54.7 |

Continued

Table S2 continued

| References | Years | Area | GSA | Species | FAO Code | MC | NMS | MMS | L50 | SR | SF | MS-calc |
|--------------------------------|-------|-----------------------|-----|--------------------------------|----------|-----|-----|-------|-------|------|------|---------|
| Sala <i>et al.</i> , 2015 | 2006 | South Tyrrhenian Sea | 10 | <i>Aristaeomorpha foliacea</i> | ARS | SM | 54 | 56.9 | 2.75 | 0.56 | 0.48 | 56.9 |
| Carlucci <i>et al.</i> , 2006 | 2002 | Ionian Sea | 19 | <i>Aristeus antennatus</i> | ARA | DM | 50 | NA | 1.94 | 0.36 | 0.39 | 50 |
| Carlucci <i>et al.</i> , 2006 | 2002 | Ionian Sea | 19 | <i>Aristeus antennatus</i> | ARA | DM | 60 | NA | 2.36 | 0.97 | 0.39 | 60 |
| Deval <i>et al.</i> , 2009 | 2007 | North Levant | 24 | <i>Aristeus antennatus</i> | ARA | DM | 44 | 43.46 | 1.7 | 0.72 | 0.39 | 43.46 |
| Deval <i>et al.</i> , 2009 | 2007 | North Levant | 24 | <i>Aristeus antennatus</i> | ARA | SM | 40 | 37.55 | 1.98 | 0.48 | 0.53 | 37.55 |
| Deval <i>et al.</i> , 2016 | 2016 | Eastern Mediterranean | 24 | <i>Aristeus antennatus</i> | ARA | DM | 50 | NA | 2.08 | 0.9 | 0.42 | 50 |
| Deval <i>et al.</i> , 2016 | 2016 | Eastern Mediterranean | 24 | <i>Aristeus antennatus</i> | ARA | T90 | 50 | NA | 2.33 | 0.97 | 0.47 | 50 |
| D'Ongghia <i>et al.</i> , 1998 | 1996 | Ionian Sea | 19 | <i>Aristeus antennatus</i> | ARA | DM | 60 | NA | 2.37 | 1.3 | 0.4 | 60 |
| D'Ongghia <i>et al.</i> , 2003 | 1998 | Ionian Sea | 19 | <i>Aristeus antennatus</i> | ARA | DM | 50 | NA | 1.9 | 0.62 | 0.38 | 50 |
| D'Ongghia <i>et al.</i> , 2003 | 1998 | Ionian Sea | 19 | <i>Aristeus antennatus</i> | ARA | DM | 60 | NA | 2.54 | 1.11 | 0.42 | 60 |
| Gorelli <i>et al.</i> , 2014 | 2013 | West Mediterranean | 6 | <i>Aristeus antennatus</i> | ARA | DM | 50 | NA | 2.06 | 0.93 | 0.41 | 50 |
| Gorelli <i>et al.</i> , 2014 | 2013 | West Mediterranean | 6 | <i>Aristeus antennatus</i> | ARA | SM | 40 | NA | 2.16 | 0.68 | 0.54 | 40 |
| Gorelli <i>et al.</i> , 2017 | 2017 | West Mediterranean | 6 | <i>Aristeus antennatus</i> | ARA | DM | 50 | NA | 2.26 | 0.77 | 0.45 | 50 |
| Gorelli <i>et al.</i> , 2017 | 2017 | West Mediterranean | 6 | <i>Aristeus antennatus</i> | ARA | SM | 40 | NA | 2.11 | 0.57 | 0.53 | 40 |
| Gorelli <i>et al.</i> , 2017 | 2017 | West Mediterranean | 6 | <i>Aristeus antennatus</i> | ARA | SM | 50 | NA | 2.62 | 0.72 | 0.52 | 50 |
| Guijaro & Massuti, 2006 | 2003 | Balearic Islands | 5 | <i>Aristeus antennatus</i> | ARA | SM | 40 | NA | 2.21 | 0.4 | 0.55 | 40 |
| Guijaro & Massuti, 2006 | 2003 | Balearic Islands | 5 | <i>Aristeus antennatus</i> | ARA | DM | 40 | NA | 1.72 | 0.22 | 0.43 | 40 |
| Guijaro & Massuti, 2006 | 2003 | Balearic Islands | 5 | <i>Aristeus antennatus</i> | ARA | SM | 40 | NA | 2.21 | 0.26 | 0.55 | 40 |
| Ragonese <i>et al.</i> , 1994 | 1994 | NA | NA | <i>Aristeus antennatus</i> | ARA | DM | 48 | NA | 1.99 | NA | 0.41 | 48 |
| Ragonese <i>et al.</i> , 1994 | 1994 | NA | NA | <i>Aristeus antennatus</i> | ARA | DM | 56 | NA | 2.5 | NA | 0.45 | 56 |
| Belcari <i>et al.</i> , 2007 | 2004 | North Tyrrhenian Sea | 9 | <i>Arnoglossus laterna</i> | MSF | DM | 40 | NA | 12.63 | 4.21 | 3.16 | 40 |
| Belcari <i>et al.</i> , 2007 | 2004 | North Tyrrhenian Sea | 9 | <i>Arnoglossus laterna</i> | MSF | DM | 60 | NA | 10.58 | 2.49 | 1.76 | 60 |
| Ferretti & Frogli, 1975 | 1971 | Adriatic Sea | 17 | <i>Arnoglossus laterna</i> | MSF | DM | NA | 33.7 | 6.9 | 2.8 | 2.05 | 33.7 |
| Ferretti & Frogli, 1975 | 1971 | Adriatic Sea | 17 | <i>Arnoglossus laterna</i> | MSF | DM | NA | 34 | 8.2 | 3.3 | 2.41 | 34 |
| Sala <i>et al.</i> , 2008 | 2004 | Adriatic Sea | 17 | <i>Arnoglossus laterna</i> | MSF | DM | 40 | 38.7 | 8.3 | 1.18 | 2.14 | 38.7 |
| Sala <i>et al.</i> , 2008 | 2004 | Adriatic Sea | 17 | <i>Arnoglossus laterna</i> | MSF | SM | 40 | 38.65 | 7.61 | 0.77 | 1.97 | 38.65 |
| Sala <i>et al.</i> , 2016 | 2012 | Adriatic sea | 17 | <i>Arnoglossus laterna</i> | MSF | SM | 41 | 41.05 | 8.34 | 1.67 | 2.03 | 41.05 |
| Sala <i>et al.</i> , 2016 | 2012 | Adriatic sea | 17 | <i>Arnoglossus laterna</i> | MSF | SM | 41 | 41.05 | 8.29 | 1.74 | 2.02 | 41.05 |

Continued

Table S2 continued

| References | Years | Area | GSA | Species | FAO Code | MC | NMS | MMS | L50 | SR | SF | MS-calc |
|-------------------------------|-------|-----------------------|-----|----------------------------------|----------|----|-----|-------|-------|------|------|---------|
| Sala <i>et al.</i> , 2016 | 2012 | Adriatic sea | 17 | <i>Arnoglossus laterna</i> | MSF | SM | 41 | 41.5 | 8.37 | 1.5 | 2.02 | 41.5 |
| Ordines <i>et al.</i> , 2006 | 2003 | Balearic Islands | 5 | <i>Aspitrigla cuculus</i> | GUR | SM | 40 | NA | 12.1 | 2 | 3.03 | 40 |
| Ates <i>et al.</i> , 2010 | 2007 | North Levant | 24 | <i>Boops boops</i> | BOG | DM | 44 | 43.46 | 14.2 | 3 | 3.27 | 43.46 |
| Ates <i>et al.</i> , 2010 | 2007 | North Levant | 24 | <i>Boops boops</i> | BOG | SM | 40 | 37.55 | 17.5 | 2.1 | 4.66 | 37.55 |
| Ikyaz <i>et al.</i> , 2017 | 2017 | Eastern Mediterranean | 22 | <i>Boops boops</i> | BOG | DM | 44 | 45.4 | 13.2 | 3 | 2.91 | 45.4 |
| M'Rabet, 1994 | 1994 | Tunisia | 12 | <i>Boops boops</i> | BOG | DM | 40 | 33.5 | 12.31 | | 3.67 | 33.5 |
| M'Rabet, 1994 | 1994 | Tunisia | 12 | <i>Boops boops</i> | BOG | DM | 40 | 34.9 | 12.11 | | 3.47 | 34.9 |
| Petrakis <i>et al.</i> , 2004 | 2004 | Aegean Sea | 22 | <i>Boops boops</i> | BOG | DM | 40 | NA | 14.79 | 1.55 | 3.7 | 40 |
| Sala <i>et al.</i> , 2016 | 2012 | Adriatic sea | 17 | <i>Buglossidium luteum</i> | GSM | SM | 41 | 41.05 | 10.54 | 1.07 | 2.57 | 41.05 |
| Sala <i>et al.</i> , 2016 | 2012 | Adriatic sea | 17 | <i>Buglossidium luteum</i> | GSM | SM | 41 | 41.05 | 10.68 | 1.1 | 2.6 | 41.05 |
| Sala <i>et al.</i> , 2016 | 2012 | Adriatic sea | 17 | <i>Buglossidium luteum</i> | GSM | SM | 41 | 41.5 | 10.69 | 0.94 | 2.58 | 41.5 |
| Ordines <i>et al.</i> , 2006 | 2003 | Balearic Islands | 5 | <i>Chelidonichthys lastoviza</i> | CTZ | DM | 40 | NA | 4.7 | 3.6 | 1.18 | 40 |
| Ordines <i>et al.</i> , 2006 | 2003 | Balearic Islands | 5 | <i>Chelidonichthys lastoviza</i> | CTZ | SM | 40 | NA | 7.3 | 3.6 | 1.83 | 40 |
| Petrakis <i>et al.</i> , 2004 | 2004 | Aegean Sea | 22 | <i>Chlorophthalmus agassizi</i> | CASG | DM | 40 | NA | 12.24 | 2.1 | 3.06 | 40 |
| Petrakis <i>et al.</i> , 2004 | 2004 | Aegean Sea | 22 | <i>Chlorophthalmus agassizi</i> | CASG | DM | 40 | NA | 10.81 | 2.1 | 2.7 | 40 |
| Demirci & Akyurt, 2017 | 2017 | Eastern Mediterranean | 24 | <i>Citharus linguatula</i> | CIL | SM | 40 | NA | 14.06 | 3.53 | 3.52 | 40 |
| Demirci & Akyurt, 2017 | 2017 | Eastern Mediterranean | 24 | <i>Citharus linguatula</i> | CIL | DM | 44 | NA | 13.19 | 2.51 | 3 | 44 |
| Demirci & Akyurt, 2017 | 2017 | Eastern Mediterranean | 24 | <i>Citharus linguatula</i> | CIL | DM | 50 | NA | 16.57 | 6.97 | 3.31 | 50 |
| Ordines <i>et al.</i> , 2006 | 2002 | Balearic Islands | 5 | <i>Citharus linguatula</i> | CIL | SM | 40 | NA | 11.5 | 1.5 | 2.88 | 40 |
| Sarda <i>et al.</i> , 2006 | 2003 | NW Mediterranean | 6 | <i>Citharus linguatula</i> | CIL | SM | 36 | NA | 9.27 | 3.08 | 2.58 | 36 |
| D'Onghia <i>et al.</i> , 2003 | 1998 | Ionian Sea | 19 | <i>Coelorinchus caelorhincus</i> | CQL | DM | 40 | NA | 2.49 | 0.5 | 0.62 | 40 |
| D'Onghia <i>et al.</i> , 2003 | 1998 | Ionian Sea | 19 | <i>Coelorinchus caelorhincus</i> | CQL | DM | 50 | NA | 3.39 | 0.57 | 0.68 | 50 |
| D'Onghia <i>et al.</i> , 2003 | 1998 | Ionian Sea | 19 | <i>Coelorinchus caelorhincus</i> | CQL | DM | 60 | NA | 4.74 | 1.57 | 0.79 | 60 |
| Ates <i>et al.</i> , 2010 | 2007 | North Levant | 24 | <i>Dentex macrophthalmus</i> | DEL | DM | 44 | 43.46 | 9.6 | 2.4 | 2.21 | 43.46 |
| Petrakis <i>et al.</i> , 2004 | 2004 | Aegean Sea | 22 | <i>Dentex macrophthalmus</i> | DEL | DM | 40 | NA | 10.78 | 0.66 | 2.7 | 40 |
| Petrakis <i>et al.</i> , 2004 | 2004 | Aegean Sea | 22 | <i>Dentex macrophthalmus</i> | DEL | DM | 40 | NA | 9.09 | 2.03 | 2.27 | 40 |
| Dereli & Aydin, 2016 | 2016 | Aegean Sea | 22 | <i>Dentex maroccanus</i> | DXM | DM | 44 | 44.27 | 10 | 2.3 | 2.26 | 44.27 |
| Dereli & Aydin, 2016 | 2016 | Aegean Sea | 22 | <i>Dentex maroccanus</i> | DXM | DM | 50 | 50.82 | 10.7 | 2.2 | 2.11 | 50.82 |

Continued

Table S2 continued

| References | Years | Area | GSA | Species | FAO Code | MC | NMS | MMS | L50 | SR | SF | MS-calc |
|-------------------------------|-------|----------------|-----|---------------------------|----------|-----|-----|-------|-------|------|------|---------|
| Dereli & Aydin, 2016 | 2016 | Aegean Sea | 22 | <i>Dentex maroccanus</i> | DXM | SM | 40 | 41.18 | 10.3 | 1.8 | 2.5 | 41.18 |
| Dereli & Aydin, 2016 | 2016 | Aegean Sea | 22 | <i>Dentex maroccanus</i> | DXM | T90 | 40 | 42.42 | 8.4 | 3.2 | 1.98 | 42.42 |
| Aydin <i>et al.</i> , 2011 | 2008 | Eastern Aegean | 22 | <i>Diplodus annularis</i> | ANN | SM | 40 | 40.8 | 9.5 | 0.8 | 2.33 | 40.8 |
| Aydin <i>et al.</i> , 2011 | 2008 | Eastern Aegean | 22 | <i>Diplodus annularis</i> | ANN | SM | 40 | 40.8 | 9.4 | 0.8 | 2.3 | 40.8 |
| Aydin <i>et al.</i> , 2011 | 2008 | Eastern Aegean | 22 | <i>Diplodus annularis</i> | ANN | DM | 50 | 50.1 | 11.2 | 1.5 | 2.24 | 50.1 |
| Aydin <i>et al.</i> , 2011 | 2008 | Eastern Aegean | 22 | <i>Diplodus annularis</i> | ANN | DM | 50 | 50.1 | 11.2 | 1.5 | 2.24 | 50.1 |
| Lök <i>et al.</i> , 1997 | 1997 | Aegean Sea | 22 | <i>Diplodus annularis</i> | ANN | DM | 44 | NA | 9.88 | 1.04 | 2.25 | 44 |
| Lök <i>et al.</i> , 1997 | 1997 | Aegean Sea | 22 | <i>Diplodus annularis</i> | ANN | DM | 44 | NA | 9.84 | 1.53 | 2.24 | 44 |
| Lök <i>et al.</i> , 1997 | 1997 | Aegean Sea | 22 | <i>Diplodus annularis</i> | ANN | DM | 44 | NA | 10.07 | 1.79 | 2.29 | 44 |
| Ozbilgin <i>et al.</i> , 2005 | 2003 | Eastern Aegean | 22 | <i>Diplodus annularis</i> | ANN | DM | 40 | 42.4 | 8.7 | 1.1 | 2.05 | 42.4 |
| Ozbilgin <i>et al.</i> , 2005 | 2003 | Eastern Aegean | 22 | <i>Diplodus annularis</i> | ANN | DM | 40 | 42.4 | 9.3 | 0.9 | 2.19 | 42.4 |
| Ozbilgin <i>et al.</i> , 2005 | 2003 | Eastern Aegean | 22 | <i>Diplodus annularis</i> | ANN | DM | 40 | 42.4 | 9.2 | 0.9 | 2.17 | 42.4 |
| Ozbilgin <i>et al.</i> , 2005 | 2003 | Eastern Aegean | 22 | <i>Diplodus annularis</i> | ANN | DM | 40 | 42.4 | 8.9 | 1.1 | 2.1 | 42.4 |
| Tokaç <i>et al.</i> , 1998 | 1996 | Eastern Aegean | 22 | <i>Diplodus annularis</i> | ANN | DM | 36 | NA | 7.61 | 1.35 | 2.11 | 36 |
| Tokaç <i>et al.</i> , 1998 | 1996 | Eastern Aegean | 22 | <i>Diplodus annularis</i> | ANN | DM | 40 | NA | 8.58 | 1.22 | 2.15 | 40 |
| Tokaç <i>et al.</i> , 1998 | 1996 | Eastern Aegean | 22 | <i>Diplodus annularis</i> | ANN | DM | 44 | NA | 9.87 | 1.13 | 2.24 | 44 |
| Tokaç <i>et al.</i> , 1998 | 1996 | Eastern Aegean | 22 | <i>Diplodus annularis</i> | ANN | DM | 48 | NA | 12.68 | 1.26 | 2.64 | 48 |
| Tokaç <i>et al.</i> , 1998 | 1996 | Eastern Aegean | 22 | <i>Diplodus annularis</i> | ANN | SM | 36 | NA | 7.47 | 2.06 | 2.08 | 36 |
| Tokaç <i>et al.</i> , 1998 | 1996 | Eastern Aegean | 22 | <i>Diplodus annularis</i> | ANN | SM | 40 | NA | 8.79 | 1.51 | 2.2 | 40 |
| Tokaç <i>et al.</i> , 1998 | 1996 | Eastern Aegean | 22 | <i>Diplodus annularis</i> | ANN | SM | 44 | NA | 8.82 | 1.1 | 2 | 44 |
| Tokaç <i>et al.</i> , 1998 | 1996 | Eastern Aegean | 22 | <i>Diplodus annularis</i> | ANN | SM | 48 | NA | 12.03 | 2.22 | 2.51 | 48 |
| Tokaç <i>et al.</i> , 2004 | 2002 | Eastern Aegean | 22 | <i>Diplodus annularis</i> | ANN | DM | 36 | 37 | 8.5 | 0.9 | 2.3 | 37 |
| Tokaç <i>et al.</i> , 2004 | 2002 | Eastern Aegean | 22 | <i>Diplodus annularis</i> | ANN | DM | 36 | 37 | 8.4 | 0.9 | 2.27 | 37 |
| Tokaç <i>et al.</i> , 2004 | 2002 | Eastern Aegean | 22 | <i>Diplodus annularis</i> | ANN | DM | 40 | 41.9 | 8.8 | 0.9 | 2.1 | 41.9 |
| Tokaç <i>et al.</i> , 2004 | 2002 | Eastern Aegean | 22 | <i>Diplodus annularis</i> | ANN | DM | 40 | 41.9 | 8.8 | 0.9 | 2.1 | 41.9 |
| Tokaç <i>et al.</i> , 2004 | 2002 | Eastern Aegean | 22 | <i>Diplodus annularis</i> | ANN | DM | 44 | 44.7 | 10.3 | 1.3 | 2.3 | 44.7 |
| Tokaç <i>et al.</i> , 2004 | 2002 | Eastern Aegean | 22 | <i>Diplodus annularis</i> | ANN | DM | 44 | 44.7 | 10.3 | 1.2 | 2.3 | 44.7 |
| Tokaç <i>et al.</i> , 2014 | 2014 | Aegean Sea | 22 | <i>Diplodus annularis</i> | ANN | DM | 40 | 40.44 | 8.77 | 0.6 | 2.17 | 40.44 |

Continued

Table S2 continued

| References | Years | Area | GSA | Species | FAO Code | MC | NMS | MMS | L50 | SR | SF | MS-calc |
|---------------------------------|-------|------------------------|-----|----------------------------------|----------|-----|-----|-------|-------|------|------|---------|
| Tokaç <i>et al.</i> , 2014 | 2014 | Aegean Sea | 22 | <i>Diplodus annularis</i> | ANN | DM | 44 | 44.33 | 9.92 | 0.96 | 2.24 | 44.33 |
| Tokaç <i>et al.</i> , 2014 | 2014 | Aegean Sea | 22 | <i>Diplodus annularis</i> | ANN | DM | 50 | 51.34 | 11.98 | 1.62 | 2.33 | 51.34 |
| Tokaç <i>et al.</i> , 2014 | 2014 | Aegean Sea | 22 | <i>Diplodus annularis</i> | ANN | T90 | 40 | 40.44 | 8.77 | 0.6 | 2.17 | 40.44 |
| Tokaç <i>et al.</i> , 2014 | 2014 | Aegean Sea | 22 | <i>Diplodus annularis</i> | ANN | T90 | 44 | 44.33 | 9.92 | 0.96 | 2.24 | 44.33 |
| Tosunoglu <i>et al.</i> , 2003b | 2002 | Eastern Aegean | 22 | <i>Diplodus annularis</i> | ANN | DM | 40 | 41.9 | 9.4 | 0.79 | 2.24 | 41.9 |
| Baino, 1998 | 1997 | Central Tyrrhenian Sea | 9 | <i>Eledone cirrosa</i> | EOI | DM | 40 | NA | 2.69 | 2.16 | 0.67 | 40 |
| Belcari <i>et al.</i> , 2007 | 2004 | North Tyrrhenian Sea | 9 | <i>Eledone cirrosa</i> | EOI | DM | 40 | NA | 4.6 | 3.62 | 1.15 | 40 |
| Belcari <i>et al.</i> , 2007 | 2004 | North Tyrrhenian Sea | 9 | <i>Eledone cirrosa</i> | EOI | DM | 60 | NA | 5.45 | 3.01 | 0.91 | 60 |
| Ordines <i>et al.</i> , 2006 | 2002 | Balearic Islands | 5 | <i>Eledone cirrosa</i> | EOI | DM | 40 | NA | 1.6 | 3.9 | 0.4 | 40 |
| Ordines <i>et al.</i> , 2006 | 2002 | Balearic Islands | 5 | <i>Eledone cirrosa</i> | EOI | SM | 40 | NA | 6 | 2.9 | 1.5 | 40 |
| Burgaud & Dremlere, 1992 | 1982 | Gulf of Lyon | 7 | <i>Engraulis encrasicolus</i> | ANE | DM | 32 | NA | 13.4 | 3.2 | 4.19 | 32 |
| Burgaud & Dremlere, 1992 | 1982 | Gulf of Lyon | 7 | <i>Engraulis encrasicolus</i> | ANE | DM | 40 | NA | 14.1 | 2.6 | 3.53 | 40 |
| Guijaro & Massuti, 2006 | 2003 | Balearic Islands | 5 | <i>Galeus melastomus</i> | SHO | DM | 40 | NA | 13.2 | 7.2 | 3.3 | 40 |
| Guijaro & Massuti, 2006 | 2003 | Balearic Islands | 5 | <i>Galeus melastomus</i> | SHO | SM | 40 | NA | 22.4 | 5.5 | 5.6 | 40 |
| Guijaro & Massuti, 2006 | 2003 | Balearic Islands | 5 | <i>Galeus melastomus</i> | SHO | DM | 40 | NA | 11.5 | 8.8 | 2.88 | 40 |
| Guijaro & Massuti, 2006 | 2003 | Balearic Islands | 5 | <i>Galeus melastomus</i> | SHO | SM | 40 | NA | 22.2 | 6.7 | 5.55 | 40 |
| Guijaro & Massuti, 2006 | 2003 | Balearic Islands | 5 | <i>Geryon longipes</i> | GRQ | SM | 40 | NA | 2.51 | 0.21 | 0.63 | 40 |
| Belcari <i>et al.</i> , 2007 | 2004 | North Tyrrhenian Sea | 9 | <i>Helicolenus dactylopterus</i> | BRF | DM | 40 | NA | 6.73 | 1.96 | 1.68 | 40 |
| Belcari <i>et al.</i> , 2007 | 2004 | North Tyrrhenian Sea | 9 | <i>Helicolenus dactylopterus</i> | BRF | DM | 60 | NA | 10.31 | 3.17 | 1.72 | 60 |
| D'Onghia <i>et al.</i> , 2003 | 1998 | Ionian Sea | 19 | <i>Helicolenus dactylopterus</i> | BRF | DM | 40 | NA | 5.52 | 1.1 | 1.38 | 40 |
| D'Onghia <i>et al.</i> , 2003 | 1998 | Ionian Sea | 19 | <i>Helicolenus dactylopterus</i> | BRF | DM | 50 | NA | 7.46 | 1.37 | 1.49 | 50 |
| D'Onghia <i>et al.</i> , 2003 | 1998 | Ionian Sea | 19 | <i>Helicolenus dactylopterus</i> | BRF | DM | 60 | NA | 11.85 | 4.01 | 1.98 | 60 |
| Guijaro & Massuti, 2006 | 2003 | Balearic Islands | 5 | <i>Helicolenus dactylopterus</i> | BRF | DM | 40 | NA | 8.9 | 1.4 | 2.23 | 40 |
| Guijaro & Massuti, 2006 | 2003 | Balearic Islands | 5 | <i>Helicolenus dactylopterus</i> | BRF | SM | 40 | NA | 10.9 | 1.9 | 2.73 | 40 |
| Guijaro & Massuti, 2006 | 2003 | Balearic Islands | 5 | <i>Helicolenus dactylopterus</i> | BRF | DM | 40 | NA | 8.7 | 1.1 | 2.18 | 40 |
| Guijaro & Massuti, 2006 | 2003 | Balearic Islands | 5 | <i>Helicolenus dactylopterus</i> | BRF | SM | 40 | NA | 11.1 | 3.6 | 2.78 | 40 |
| Ordines <i>et al.</i> , 2006 | 2002 | Balearic Islands | 5 | <i>Helicolenus dactylopterus</i> | BRF | SM | 40 | NA | 10.9 | 1.6 | 2.73 | 40 |
| Tokaç <i>et al.</i> , 2010 | 2004 | Eastern Aegean | 22 | <i>Helicolenus dactylopterus</i> | BRF | DM | 40 | 42.42 | 7.7 | 1.43 | 1.82 | 42.42 |

Continued

Table S2 continued

| References | Years | Area | GSA | Species | FAO Code | MC | NMS | MMS | L50 | SR | SF | MS-calc |
|--------------------------------|-------|------------------------|-----|-------------------------------|----------|-----|-----|-------|-------|------|------|---------|
| Belcari <i>et al.</i> , 2007 | 2004 | North Tyrrhenian Sea | 9 | <i>Illex coindetii</i> | SQM | DM | 40 | NA | 4.1 | 2 | 1.03 | 40 |
| Belcari <i>et al.</i> , 2007 | 2004 | North Tyrrhenian Sea | 9 | <i>Illex coindetii</i> | SQM | DM | 60 | NA | 7.92 | 3.93 | 1.32 | 60 |
| Brcic <i>et al.</i> , 2018b | 2018 | Central Tyrrhenian Sea | 9 | <i>Illex coindetii</i> | SQM | DM | 50 | 51.9 | 6.29 | 2.52 | 1.21 | 51.9 |
| Petrakis <i>et al.</i> , 2004 | 2004 | Aegean Sea | 22 | <i>Illex coindetii</i> | SQM | DM | 40 | NA | 7.43 | 1.56 | 1.86 | 40 |
| Sala <i>et al.</i> , 2008 | 2004 | Adriatic Sea | 17 | <i>Illex coindetii</i> | SQM | DM | 40 | 38.7 | 4.9 | 0.97 | 1.27 | 38.7 |
| Sala <i>et al.</i> , 2008 | 2004 | Adriatic Sea | 17 | <i>Illex coindetii</i> | SQM | SM | 40 | 38.65 | 8.38 | 1.9 | 2.17 | 38.65 |
| Tosunoglu <i>et al.</i> , 2009 | 2007 | Eastern Aegean | 22 | <i>Illex coindetii</i> | SQM | DM | 44 | 44.7 | 4.2 | 2.6 | 0.94 | 44.7 |
| Tosunoglu <i>et al.</i> , 2009 | 2007 | Eastern Aegean | 22 | <i>Illex coindetii</i> | SQM | HEX | 40 | 42.6 | 5.2 | 2.9 | 1.22 | 42.6 |
| Tosunoglu <i>et al.</i> , 2009 | 2007 | Eastern Aegean | 22 | <i>Illex coindetii</i> | SQM | HEX | 40 | 42.6 | 5.2 | 2.8 | 1.22 | 42.6 |
| Tosunoglu <i>et al.</i> , 2009 | 2007 | Eastern Aegean | 22 | <i>Illex coindetii</i> | SQM | SM | 40 | 42.4 | 7.7 | 3 | 1.82 | 42.4 |
| Tosunoglu <i>et al.</i> , 2009 | 2007 | Eastern Aegean | 22 | <i>Illex coindetii</i> | SQM | SM | 40 | 42.4 | 7.8 | 3.2 | 1.84 | 42.4 |
| Guijaro & Massuti, 2006 | 2003 | Balearic Islands | 5 | <i>Lepidorhombus boscii</i> | LDB | DM | 40 | NA | 9.9 | 2.4 | 2.48 | 40 |
| Guijaro & Massuti, 2006 | 2003 | Balearic Islands | 5 | <i>Lepidorhombus boscii</i> | LDB | SM | 40 | NA | 10.2 | 1.5 | 2.55 | 40 |
| Guijaro & Massuti, 2006 | 2003 | Balearic Islands | 5 | <i>Lepidorhombus boscii</i> | LDB | DM | 40 | NA | 9.8 | 2 | 2.45 | 40 |
| Guijaro & Massuti, 2006 | 2003 | Balearic Islands | 5 | <i>Lepidorhombus boscii</i> | LDB | SM | 40 | NA | 9.5 | 0.7 | 2.38 | 40 |
| Petrakis & Stergiou, 1997 | 1994 | West Aegean Sea | 22 | <i>Lepidorhombus boscii</i> | LDB | DM | 40 | NA | 10.32 | 3.25 | 2.58 | 40 |
| Petrakis & Stergiou, 1997 | 1994 | West Aegean Sea | 22 | <i>Lepidorhombus boscii</i> | LDB | SM | 40 | NA | 8.5 | 3.49 | 2.13 | 40 |
| Ordines <i>et al.</i> , 2006 | 2002 | Balearic Islands | 5 | <i>Lepidotrigla cavillone</i> | LDV | DM | 40 | NA | 7 | 1.3 | 1.75 | 40 |
| Ordines <i>et al.</i> , 2006 | 2002 | Balearic Islands | 5 | <i>Lepidotrigla cavillone</i> | LDV | SM | 40 | NA | 9.6 | 1.5 | 2.4 | 40 |
| Petrakis <i>et al.</i> , 2004 | 2004 | Aegean Sea | 22 | <i>Lepidotrigla cavillone</i> | LDV | DM | 40 | NA | 7.65 | 1.57 | 1.91 | 40 |
| Petrakis <i>et al.</i> , 2004 | 2004 | Aegean Sea | 22 | <i>Lepidotrigla cavillone</i> | LDV | DM | 40 | NA | 7.65 | 0.83 | 1.91 | 40 |
| Baino, 1998 | 1997 | Central Tyrrhenian Sea | 9 | <i>Loligo vulgaris</i> | SQR | DM | 40 | NA | 4.5 | 1.08 | 1.13 | 40 |
| Ordines <i>et al.</i> , 2006 | 2003 | Balearic Islands | 5 | <i>Loligo vulgaris</i> | SQR | DM | 40 | NA | 3.4 | 2 | 0.85 | 40 |
| Ordines <i>et al.</i> , 2006 | 2003 | Balearic Islands | 5 | <i>Loligo vulgaris</i> | SQR | SM | 40 | NA | 5.8 | 2.1 | 1.45 | 40 |
| Petetta <i>et al.</i> , 2020 | 2019 | North Adriatic Sea | 17 | <i>Loligo vulgaris</i> | SQR | DM | 54 | 55.2 | 7.88 | 5.67 | 1.43 | 55.2 |
| Petetta <i>et al.</i> , 2020 | 2019 | North Adriatic Sea | 17 | <i>Loligo vulgaris</i> | SQR | T90 | 54 | 55.3 | 12.06 | 4.94 | 2.18 | 55.3 |
| Petrakis <i>et al.</i> , 2004 | 2004 | Aegean Sea | 22 | <i>Loligo vulgaris</i> | SQR | DM | 40 | NA | 5 | 2.19 | 1.25 | 40 |
| Petrakis <i>et al.</i> , 2004 | 2004 | Aegean Sea | 22 | <i>Loligo vulgaris</i> | SQR | DM | 40 | NA | 5 | 0.9 | 1.25 | 40 |

Continued

Table S2 continued

| References | Years | Area | GSA | Species | FAO Code | MC | NMS | MMS | L50 | SR | SF | MS-calc |
|---------------------------------|-------|------------------------|-----|------------------------------|----------|-----|-----|-------|-------|-------|------|---------|
| Tosunoglu <i>et al.</i> , 2009 | 2007 | Eastern Aegean | 22 | <i>Loligo vulgaris</i> | SQR | DM | 44 | 44.7 | 4.6 | 1 | 1.03 | 44.7 |
| Tosunoglu <i>et al.</i> , 2009 | 2007 | Eastern Aegean | 22 | <i>Loligo vulgaris</i> | SQR | HEX | 40 | 42.6 | 4.2 | 1.8 | 0.99 | 42.6 |
| Tosunoglu <i>et al.</i> , 2009 | 2007 | Eastern Aegean | 22 | <i>Loligo vulgaris</i> | SQR | SM | 40 | 42.4 | 6 | 1.5 | 1.42 | 42.4 |
| Mytilineou <i>et al.</i> , 2021 | 2014 | South Aegean Sea | 22 | <i>Lophius budegassa</i> | ANK | DM | 40 | 43.2 | 4.71 | 3.53 | 1.09 | 43.2 |
| Mytilineou <i>et al.</i> , 2021 | 2014 | South Aegean Sea | 22 | <i>Lophius budegassa</i> | ANK | SM | 40 | 43.2 | 4.43 | 5.88 | 1.03 | 43.2 |
| Mytilineou <i>et al.</i> , 2021 | 2014 | South Aegean Sea | 22 | <i>Lophius budegassa</i> | ANK | DM | 50 | 51.1 | 5.27 | 3.06 | 1.03 | 51.1 |
| Ferretti & Froggia, 1975 | 1971 | Adriatic Sea | 17 | <i>Merlangius merlangus</i> | WHG | DM | NA | 34 | 8.7 | 3.4 | 2.56 | 34 |
| Ferretti & Froggia, 1975 | 1971 | Adriatic Sea | 17 | <i>Merlangius merlangus</i> | WHG | DM | NA | 33.7 | 10.6 | 6.8 | 3.15 | 33.7 |
| Petetta <i>et al.</i> , 2020 | 2019 | North Adriatic Sea | 17 | <i>Merlangius merlangus</i> | WHG | DM | 54 | 55.2 | 23.02 | 12.86 | 4.17 | 55.2 |
| Petetta <i>et al.</i> , 2020 | 2019 | North Adriatic Sea | 17 | <i>Merlangius merlangus</i> | WHG | T90 | 54 | 55.3 | 22.88 | 3.92 | 4.14 | 55.3 |
| Sala <i>et al.</i> , 2007 | 2004 | Adriatic Sea | 17 | <i>Merlangius merlangus</i> | WHG | DM | 44 | 44.73 | 10.77 | 2.63 | 2.41 | 44.73 |
| Sala <i>et al.</i> , 2007 | 2004 | Adriatic Sea | 17 | <i>Merlangius merlangus</i> | WHG | DM | 44 | 44.33 | 8.25 | 1.76 | 1.86 | 44.33 |
| Abella & Serena, 1998 | 1988 | North Tyrrhenian Sea | 9 | <i>Merluccius merluccius</i> | HKE | DM | 38 | NA | 10.2 | 1.8 | 2.68 | 38 |
| Aldebert e Carriers, 1990 | 1990 | Gulf of Lyon | 7 | <i>Merluccius merluccius</i> | HKE | DM | NA | 34 | 11.4 | NA | 3.35 | 34 |
| Aldebert e Carriers, 1990 | 1990 | Gulf of Lyon | 7 | <i>Merluccius merluccius</i> | HKE | DM | NA | 40 | 13 | NA | 3.25 | 40 |
| Aldebert e Carriers, 1990 | 1990 | Gulf of Lyon | 7 | <i>Merluccius merluccius</i> | HKE | DM | NA | 50 | 16.3 | NA | 3.26 | 50 |
| Aldebert e Carriers, 1990 | 1990 | Gulf of Lyon | 7 | <i>Merluccius merluccius</i> | HKE | DM | NA | 60 | 19.5 | NA | 3.25 | 60 |
| Aldebert e Carriers, 1990 | 1990 | Gulf of Lyon | 7 | <i>Merluccius merluccius</i> | HKE | DM | NA | 40 | 12.4 | NA | 3.1 | 40 |
| Aydin & Tosunoglu, 2010 | 2007 | Aegean Sea | 22 | <i>Merluccius merluccius</i> | HKE | DM | 44 | 44.7 | 10.4 | 3.1 | 2.33 | 44.7 |
| Aydin & Tosunoglu, 2010 | 2007 | Aegean Sea | 22 | <i>Merluccius merluccius</i> | HKE | SM | 40 | 42.4 | 14.4 | 4.8 | 3.4 | 42.4 |
| Aydin & Tosunoglu, 2010 | 2007 | Aegean Sea | 22 | <i>Merluccius merluccius</i> | HKE | HEX | 40 | 42.6 | 11 | 4.3 | 2.58 | 42.6 |
| Aydin & Tosunoglu, 2010 | 2007 | Aegean Sea | 22 | <i>Merluccius merluccius</i> | HKE | DM | 44 | 44.7 | 10.3 | 3.4 | 2.3 | 44.7 |
| Aydin & Tosunoglu, 2010 | 2007 | Aegean Sea | 22 | <i>Merluccius merluccius</i> | HKE | SM | 40 | 42.4 | 14.9 | 5.9 | 3.51 | 42.4 |
| Aydin & Tosunoglu, 2010 | 2007 | Aegean Sea | 22 | <i>Merluccius merluccius</i> | HKE | HEX | 40 | 42.6 | 10.6 | 4.6 | 2.49 | 42.6 |
| Bahamon <i>et al.</i> , 2006 | 2005 | Catalan Sea | 6 | <i>Merluccius merluccius</i> | HKE | DM | 42 | 40.3 | 10.1 | 3.1 | 2.51 | 40.3 |
| Bahamon <i>et al.</i> , 2006 | 2005 | Catalan Sea | 6 | <i>Merluccius merluccius</i> | HKE | SM | 42 | 40.3 | 16 | 4.8 | 3.97 | 40.3 |
| Baino, 1998 | 1997 | Central Tyrrhenian Sea | 9 | <i>Merluccius merluccius</i> | HKE | DM | 40 | NA | 8.31 | 3.2 | 2.08 | 40 |
| Baro <i>et al.</i> , 2007 | 2004 | Northern Alboran Sea | 1 | <i>Merluccius merluccius</i> | HKE | DM | 40 | NA | 8.67 | 3.9 | 2.17 | 40 |

Continued

Table S2 continued

| References | Years | Area | GSA | Species | FAO Code | MC | NMS | MMS | L50 | SR | SF | MS-calc |
|------------------------------|-------|------------------------|-----|------------------------------|----------|-----|-----|-------|-------|-------|------|---------|
| Baro <i>et al.</i> , 2007 | 2004 | Northern Alboran Sea | 1 | <i>Merluccius merluccius</i> | HKE | SM | 40 | NA | 15.21 | 3.12 | 3.8 | 40 |
| Baro <i>et al.</i> , 2007 | 2004 | Northern Alboran Sea | 1 | <i>Merluccius merluccius</i> | HKE | SM | 40 | NA | 17.16 | 2.38 | 4.29 | 40 |
| Belcari <i>et al.</i> , 2007 | 2004 | North Tyrrhenian Sea | 9 | <i>Merluccius merluccius</i> | HKE | DM | 40 | NA | 9.17 | 2.56 | 2.29 | 40 |
| Belcari <i>et al.</i> , 2007 | 2004 | North Tyrrhenian Sea | 9 | <i>Merluccius merluccius</i> | HKE | DM | 60 | NA | 18.1 | 10.62 | 3.02 | 60 |
| Breic <i>et al.</i> , 2018a | 2012 | Central Tyrrhenian Sea | 9 | <i>Merluccius merluccius</i> | HKE | DM | 50 | 51.9 | 13.59 | 2.18 | 2.62 | 51.9 |
| Breic <i>et al.</i> , 2018a | 2012 | Central Tyrrhenian Sea | 9 | <i>Merluccius merluccius</i> | HKE | DM | 50 | 51.9 | 13.1 | 2.1 | 2.52 | 51.9 |
| Breic <i>et al.</i> , 2018a | 2012 | Central Tyrrhenian Sea | 9 | <i>Merluccius merluccius</i> | HKE | DM | 50 | 51.9 | 17.82 | 6.2 | 3.43 | 51.9 |
| Breic <i>et al.</i> , 2018a | 2012 | Central Tyrrhenian Sea | 9 | <i>Merluccius merluccius</i> | HKE | DM | 50 | 51.9 | 17.33 | 6.12 | 3.34 | 51.9 |
| Breic <i>et al.</i> , 2018a | 2012 | Central Tyrrhenian Sea | 9 | <i>Merluccius merluccius</i> | HKE | SM | 40 | 40.2 | 13.88 | 0.27 | 3.45 | 40.2 |
| Breic <i>et al.</i> , 2018a | 2012 | Central Tyrrhenian Sea | 9 | <i>Merluccius merluccius</i> | HKE | SM | 40 | 40.2 | 13.39 | 2.32 | 3.33 | 40.2 |
| Breic <i>et al.</i> , 2018a | 2012 | Central Tyrrhenian Sea | 9 | <i>Merluccius merluccius</i> | HKE | SM | 40 | 40.2 | 18.11 | 4.29 | 4.50 | 40.2 |
| Breic <i>et al.</i> , 2018a | 2012 | Central Tyrrhenian Sea | 9 | <i>Merluccius merluccius</i> | HKE | SM | 40 | 40.2 | 17.62 | 6.35 | 4.38 | 40.2 |
| Breic <i>et al.</i> , 2018b | 2018 | Central Tyrrhenian Sea | 9 | <i>Merluccius merluccius</i> | HKE | DM | 50 | 51.9 | 13.71 | 3.37 | 2.64 | 51.9 |
| Burgaud & Dremiere, 1992 | 1982 | Gulf of Lyon | 7 | <i>Merluccius merluccius</i> | HKE | DM | 44 | NA | 11.7 | 4 | 2.66 | 44 |
| Dereli & Aydin, 2016 | 2016 | Aegean Sea | 22 | <i>Merluccius merluccius</i> | HKE | DM | 44 | 44.27 | 12.3 | 1.6 | 2.78 | 44.27 |
| Dereli & Aydin, 2016 | 2016 | Aegean Sea | 22 | <i>Merluccius merluccius</i> | HKE | DM | 50 | 50.82 | 14.4 | 6.3 | 2.83 | 50.82 |
| Dereli & Aydin, 2016 | 2016 | Aegean Sea | 22 | <i>Merluccius merluccius</i> | HKE | SM | 40 | 41.18 | 14.3 | 3.4 | 3.47 | 41.18 |
| Dremiere, 1979 | 1979 | Gulf of Lyon | 7 | <i>Merluccius merluccius</i> | HKE | DM | NA | 35.5 | 12.8 | NA | 3.61 | 35.5 |
| Dremiere, 1979 | 1979 | Gulf of Lyon | 7 | <i>Merluccius merluccius</i> | HKE | DM | NA | 34 | 10.2 | NA | 3 | 34 |
| Dremiere, 1979 | 1979 | Gulf of Lyon | 7 | <i>Merluccius merluccius</i> | HKE | DM | NA | 34.9 | 11.4 | NA | 3.27 | 34.9 |
| Ferretti & Frogliola, 1975 | 1970 | Adriatic Sea | 17 | <i>Merluccius merluccius</i> | HKE | DM | NA | 35.5 | 9 | 3.4 | 2.54 | 35.5 |
| Ferretti & Frogliola, 1975 | 1973 | Adriatic Sea | 17 | <i>Merluccius merluccius</i> | HKE | DM | NA | 42 | 11 | 3 | 2.62 | 42 |
| Genç <i>et al.</i> , 2018 | 2015 | Eastern Aegean Sea | 22 | <i>Merluccius merluccius</i> | HKE | T90 | 44 | 45.4 | 12.8 | 4.6 | 2.82 | 45.4 |
| Genç <i>et al.</i> , 2018 | 2015 | Eastern Aegean Sea | 22 | <i>Merluccius merluccius</i> | HKE | T90 | 44 | 45.4 | 13.2 | 4 | 2.91 | 45.4 |
| Genç <i>et al.</i> , 2018 | 2015 | Eastern Aegean Sea | 22 | <i>Merluccius merluccius</i> | HKE | T90 | 40 | 40.4 | 12.1 | 1.7 | 3.00 | 40.4 |
| Gil De Sola Simarro, 1991 | 1991 | Spain | 6 | <i>Merluccius merluccius</i> | HKE | DM | NA | 39.3 | 9.26 | NA | 2.36 | 39.3 |
| Gil De Sola Simarro, 1991 | 1991 | Spain | 6 | <i>Merluccius merluccius</i> | HKE | DM | NA | 36.2 | 9.1 | NA | 2.51 | 36.2 |
| Gil De Sola Simarro, 1994 | 1994 | Spain | 6 | <i>Merluccius merluccius</i> | HKE | DM | NA | 35 | 8.21 | NA | 2.35 | 35 |

Continued

Table S2 continued

| References | Years | Area | GSA | Species | FAO Code | MC | NMS | MMS | L50 | SR | SF | MS-cale |
|--------------------------------|-------|------------------------|-----|------------------------------|----------|-----|-----|------|-------|-------|------|---------|
| Gil De Sola Simarro, 1994 | 1994 | Spain | 6 | <i>Merluccius merluccius</i> | HKE | DM | NA | 40 | 9.11 | NA | 2.28 | 40 |
| Gil De Sola Simarro, 1994 | 1994 | Spain | 6 | <i>Merluccius merluccius</i> | HKE | DM | NA | 50 | 12.85 | NA | 2.57 | 50 |
| Guijaro & Massuti, 2006 | 2003 | Balearic Islands | 5 | <i>Merluccius merluccius</i> | HKE | DM | 40 | NA | 11.6 | 0.8 | 2.9 | 40 |
| Guijaro & Massuti, 2006 | 2003 | Balearic Islands | 5 | <i>Merluccius merluccius</i> | HKE | SM | 40 | NA | 15.3 | 2.2 | 3.83 | 40 |
| Larraneta <i>et al.</i> , 1969 | 1969 | Golfo di Valencia | 6 | <i>Merluccius merluccius</i> | HKE | DM | NA | 35.5 | 9.5 | NA | 2.68 | 35.5 |
| Larraneta <i>et al.</i> , 1969 | 1969 | Golfo di Valencia | 6 | <i>Merluccius merluccius</i> | HKE | DM | 34 | NA | 11.9 | NA | 3.5 | 34 |
| Larraneta <i>et al.</i> , 1969 | 1969 | Golfo di Valencia | 6 | <i>Merluccius merluccius</i> | HKE | DM | 36 | NA | 11.5 | NA | 3.19 | 36 |
| Larraneta <i>et al.</i> , 1969 | 1969 | Golfo di Valencia | 6 | <i>Merluccius merluccius</i> | HKE | DM | 40 | NA | 14.1 | NA | 3.53 | 40 |
| Larraneta <i>et al.</i> , 1969 | 1969 | Golfo di Valencia | 6 | <i>Merluccius merluccius</i> | HKE | DM | 42 | NA | 11.8 | NA | 2.81 | 42 |
| Larraneta <i>et al.</i> , 1969 | 1969 | Golfo di Valencia | 6 | <i>Merluccius merluccius</i> | HKE | DM | 44 | NA | 11.2 | NA | 2.55 | 44 |
| Larraneta <i>et al.</i> , 1969 | 1969 | Golfo di Valencia | 6 | <i>Merluccius merluccius</i> | HKE | DM | 48 | NA | 13.1 | NA | 2.73 | 48 |
| Larraneta <i>et al.</i> , 1969 | 1969 | Golfo di Valencia | 6 | <i>Merluccius merluccius</i> | HKE | DM | 50 | NA | 14.5 | NA | 2.9 | 50 |
| Larraneta <i>et al.</i> , 1969 | 1969 | Golfo di Valencia | 6 | <i>Merluccius merluccius</i> | HKE | DM | 52 | NA | 15.2 | NA | 2.92 | 52 |
| Lembo <i>et al.</i> , 2002 | 2001 | Central Tyrrhenian Sea | 9 | <i>Merluccius merluccius</i> | HKE | DM | 40 | NA | 7.9 | 4.1 | 1.98 | 40 |
| Lembo <i>et al.</i> , 2002 | 2001 | Central Tyrrhenian Sea | 9 | <i>Merluccius merluccius</i> | HKE | DM | 60 | NA | 15.5 | 4.8 | 2.58 | 60 |
| Levi <i>et al.</i> , 1971 | 1971 | Adriatic Sea | 17 | <i>Merluccius merluccius</i> | HKE | DM | NA | 35.5 | 9.5 | NA | 2.68 | 35.5 |
| Lucchetti, 2008 | 2006 | Northern Adriatic | 17 | <i>Merluccius merluccius</i> | HKE | DM | 40 | 42.8 | 7.6 | 4.01 | 1.78 | 42.8 |
| Lucchetti, 2008 | 2006 | Northern Adriatic | 17 | <i>Merluccius merluccius</i> | HKE | SM | 40 | 42.8 | 12.98 | 3.65 | 3.03 | 42.8 |
| M'Rabet, 1994 | 1994 | Tunisia | 12 | <i>Merluccius merluccius</i> | HKE | DM | 40 | 33.5 | 11.11 | | 3.32 | 33.5 |
| M'Rabet, 1994 | 1994 | Tunisia | 12 | <i>Merluccius merluccius</i> | HKE | DM | 40 | 34.9 | 11.48 | | 3.29 | 34.9 |
| M'Rabet, 1998 | 1998 | Tunisia | 12 | <i>Merluccius merluccius</i> | HKE | DM | 40 | 38.4 | 13 | 1 | 3.39 | 38.4 |
| M'Rabet, 1998 | 1998 | Tunisia | 12 | <i>Merluccius merluccius</i> | HKE | DM | 48 | 44.2 | 14.3 | 0.6 | 3.24 | 44.2 |
| Ordines <i>et al.</i> , 2006 | 2003 | Balearic Islands | 5 | <i>Merluccius merluccius</i> | HKE | DM | 40 | NA | 10.6 | 3.3 | 2.65 | 40 |
| Ordines <i>et al.</i> , 2006 | 2003 | Balearic Islands | 5 | <i>Merluccius merluccius</i> | HKE | SM | 40 | NA | 15.2 | 3.3 | 3.8 | 40 |
| Ozbilgin <i>et al.</i> , 2005 | 2003 | Eastern Aegean | 22 | <i>Merluccius merluccius</i> | HKE | DM | 40 | NA | 14.28 | 3.42 | 3.57 | 40 |
| Petetta <i>et al.</i> , 2020 | 2019 | North Adriatic Sea | 17 | <i>Merluccius merluccius</i> | HKE | DM | 54 | 55.2 | 11.26 | 21.33 | 2.04 | 55.2 |
| Petetta <i>et al.</i> , 2020 | 2019 | North Adriatic Sea | 17 | <i>Merluccius merluccius</i> | HKE | T90 | 54 | 55.3 | 21.26 | 7.02 | 3.84 | 55.3 |
| Petrakis & Stergiou, 1997 | 1994 | West Aegean Sea | 22 | <i>Merluccius merluccius</i> | HKE | DM | 28 | NA | 4.16 | 6.75 | 1.49 | 28 |

Continued

Table S2 continued

| References | Years | Area | GSA | Species | FAO Code | MC | NMS | MMS | L50 | SR | SF | MS-calc |
|-------------------------------|-------|----------------------|-----|------------------------------|----------|----|-----|-------|-------|------|------|---------|
| Petrakis & Stergiou, 1997 | 1994 | West Aegean Sea | 22 | <i>Merluccius merluccius</i> | HKE | DM | 40 | NA | 13.79 | 7.06 | 3.45 | 40 |
| Petrakis & Stergiou, 1997 | 1994 | West Aegean Sea | 22 | <i>Merluccius merluccius</i> | HKE | SM | 40 | NA | 15.1 | 5.68 | 3.78 | 40 |
| Petrakis <i>et al.</i> , 2004 | 2004 | Aegean Sea | 22 | <i>Merluccius merluccius</i> | HKE | DM | 40 | NA | 12.6 | 5.16 | 3.15 | 40 |
| Petrakis <i>et al.</i> , 2004 | 2004 | Aegean Sea | 22 | <i>Merluccius merluccius</i> | HKE | DM | 40 | NA | 12.32 | 4.87 | 3.08 | 40 |
| Petrakis <i>et al.</i> , 2004 | 2004 | Aegean Sea | 22 | <i>Merluccius merluccius</i> | HKE | DM | 40 | NA | 10.44 | 4.87 | 2.61 | 40 |
| Sala & Luchetti, 2010 | 2005 | Central Adriatic Sea | 17 | <i>Merluccius merluccius</i> | HKE | DM | 40 | 45.2 | 8.03 | 3.8 | 1.78 | 45.2 |
| Sala & Luchetti, 2010 | 2005 | Central Adriatic Sea | 17 | <i>Merluccius merluccius</i> | HKE | DM | 40 | 45.2 | 9.12 | 4.72 | 2.02 | 45.2 |
| Sala & Luchetti, 2010 | 2005 | Central Adriatic Sea | 17 | <i>Merluccius merluccius</i> | HKE | SM | 40 | 43.25 | 11.97 | 6.11 | 2.77 | 43.25 |
| Sala & Luchetti, 2010 | 2005 | Central Adriatic Sea | 17 | <i>Merluccius merluccius</i> | HKE | SM | 40 | 43.25 | 15.7 | 8.68 | 3.63 | 43.25 |
| Sala & Luchetti, 2010 | 2005 | Central Adriatic Sea | 17 | <i>Merluccius merluccius</i> | HKE | DM | 40 | 46.35 | 10.84 | 7.15 | 2.34 | 46.35 |
| Sala & Luchetti, 2010 | 2005 | Central Adriatic Sea | 17 | <i>Merluccius merluccius</i> | HKE | DM | 40 | 46.35 | 9.37 | 5.33 | 2.02 | 46.35 |
| Sala & Luchetti, 2011 | 2005 | Central Adriatic Sea | 17 | <i>Merluccius merluccius</i> | HKE | DM | 48 | 46.5 | 11.45 | 5.62 | 2.46 | 46.5 |
| Sala & Luchetti, 2011 | 2005 | Central Adriatic Sea | 17 | <i>Merluccius merluccius</i> | HKE | DM | 48 | 46.5 | 10.43 | 5.87 | 2.24 | 46.5 |
| Sala & Luchetti, 2011 | 2005 | Central Adriatic Sea | 17 | <i>Merluccius merluccius</i> | HKE | DM | 56 | 56.75 | 16.25 | 7.56 | 2.86 | 56.75 |
| Sala & Luchetti, 2011 | 2005 | Central Adriatic Sea | 17 | <i>Merluccius merluccius</i> | HKE | DM | 56 | 56.1 | 11.99 | 7.94 | 2.14 | 56.1 |
| Sala <i>et al.</i> , 2007 | 2004 | Adriatic Sea | 17 | <i>Merluccius merluccius</i> | HKE | DM | 44 | 44.73 | 9.85 | 2.75 | 2.2 | 44.73 |
| Sala <i>et al.</i> , 2007 | 2004 | Adriatic Sea | 17 | <i>Merluccius merluccius</i> | HKE | DM | 44 | 44.33 | 7.7 | 1.3 | 1.74 | 44.33 |
| Sala <i>et al.</i> , 2008 | 2004 | Adriatic Sea | 17 | <i>Merluccius merluccius</i> | HKE | DM | 40 | 38.7 | 8.26 | 1.74 | 2.13 | 38.7 |
| Sala <i>et al.</i> , 2008 | 2004 | Adriatic Sea | 17 | <i>Merluccius merluccius</i> | HKE | SM | 40 | 38.65 | 14.17 | 3.64 | 3.67 | 38.65 |
| Sarda <i>et al.</i> , 2006 | 2003 | NW Mediterranean | 6 | <i>Merluccius merluccius</i> | HKE | SM | 36 | NA | 18.47 | 5.07 | 5.13 | 36 |
| Sbrana & Reale, 1994 | 1992 | North Tyrrhenian Sea | 9 | <i>Merluccius merluccius</i> | HKE | DM | 34 | NA | 7.74 | 2.29 | 2.28 | 34 |
| Sbrana <i>et al.</i> , 1998 | 1992 | North Tyrrhenian Sea | 9 | <i>Merluccius merluccius</i> | HKE | DM | NA | 34 | 7.47 | 2.29 | 2.2 | 34 |
| Soldo, 2004 | 2003 | Adriatic Sea | 17 | <i>Merluccius merluccius</i> | HKE | DM | 48 | NA | 14.28 | 4.15 | 2.98 | 48 |
| Soldo, 2004 | 2003 | Adriatic Sea | 17 | <i>Merluccius merluccius</i> | HKE | DM | 48 | NA | 13.94 | 5.31 | 2.9 | 48 |
| Soldo, 2004 | 2003 | Adriatic Sea | 17 | <i>Merluccius merluccius</i> | HKE | DM | 48 | NA | 13.7 | 5.55 | 2.85 | 48 |
| Soldo, 2004 | 2003 | Adriatic Sea | 17 | <i>Merluccius merluccius</i> | HKE | DM | 48 | NA | 11.99 | 7.38 | 2.5 | 48 |
| Soldo, 2004 | 2003 | Adriatic Sea | 17 | <i>Merluccius merluccius</i> | HKE | DM | 60 | NA | 16.64 | 2.96 | 2.77 | 60 |
| Soldo, 2004 | 2003 | Adriatic Sea | 17 | <i>Merluccius merluccius</i> | HKE | DM | 60 | NA | 16.62 | 4.59 | 2.77 | 60 |

Continued

Table S2 continued

| References | Years | Area | GSA | Species | FAO Code | MC | NMS | MMS | L50 | SR | SF | MS-calc |
|---------------------------------|-------|-----------------------|-----|---------------------------------|----------|----|-----|-------|-------|------|------|---------|
| Tokaç <i>et al.</i> , 2010 | 2004 | Eastern Aegean | 22 | <i>Merluccius merluccius</i> | HKE | DM | 40 | 42.42 | 11.59 | 4.07 | 2.73 | 42.42 |
| Tosunoglou <i>et al.</i> , 2008 | 2006 | Aegean Sea | 22 | <i>Merluccius merluccius</i> | HKE | DM | 50 | 49.44 | 11.4 | 4.1 | 2.31 | 49.44 |
| Tosunoglu <i>et al.</i> , 2003b | 2002 | Eastern Aegean | 22 | <i>Merluccius merluccius</i> | HKE | DM | 40 | 41.9 | 10.6 | 2.84 | 2.53 | 41.9 |
| Vives <i>et al.</i> , 1966 | 1966 | NA | NA | <i>Merluccius merluccius</i> | HKE | DM | 34 | NA | 10 | NA | 2.94 | 34 |
| Vives <i>et al.</i> , 1966 | 1966 | NA | NA | <i>Merluccius merluccius</i> | HKE | DM | 40 | NA | 16.5 | NA | 4.13 | 40 |
| Vives <i>et al.</i> , 1966 | 1966 | NA | NA | <i>Merluccius merluccius</i> | HKE | DM | 60 | NA | 22.5 | NA | 3.75 | 60 |
| Ozbilgin <i>et al.</i> , 2015 | 2015 | Eastern Mediterranean | 24 | <i>Metapenaeus monoceros</i> | MPN | DM | 44 | 44.5 | 1.6 | 0.41 | 0.36 | 44.5 |
| Ozbilgin <i>et al.</i> , 2015 | 2015 | Eastern Mediterranean | 24 | <i>Metapenaeus monoceros</i> | MPN | SM | 40 | 41.36 | 2.19 | 0.62 | 0.53 | 41.36 |
| Ozbilgin <i>et al.</i> , 2015 | 2015 | Eastern Mediterranean | 24 | <i>Metapenaeus monoceros</i> | MPN | DM | 44 | 42.03 | 1.84 | 0.41 | 0.44 | 42.03 |
| Ozbilgin <i>et al.</i> , 2015 | 2015 | Eastern Mediterranean | 24 | <i>Metapenaeus monoceros</i> | MPN | DM | 50 | 51.14 | 2.17 | 1.11 | 0.42 | 51.14 |
| Baro & Muñoz, 2007 | 2004 | Northern Alboran Sea | 1 | <i>Micromesistius poutassou</i> | WHB | DM | 40 | NA | 12.01 | 3.4 | 3 | 40 |
| Baro & Muñoz, 2007 | 2004 | Northern Alboran Sea | 1 | <i>Micromesistius poutassou</i> | WHB | SM | 40 | NA | 17.4 | 2.4 | 4.35 | 40 |
| Guijaro & Massuti, 2006 | 2003 | Balearic Islands | 5 | <i>Micromesistius poutassou</i> | WHB | SM | 40 | NA | 20.1 | 2.5 | 5.03 | 40 |
| Guijaro & Massuti, 2006 | 2003 | Balearic Islands | 5 | <i>Micromesistius poutassou</i> | WHB | SM | 40 | NA | 20.2 | 4.6 | 5.05 | 40 |
| Kaykac, 2010 | 2005 | Eastern Aegean | 22 | <i>Micromesistius poutassou</i> | WHB | DM | 40 | 42.15 | 16.98 | 3.47 | 4.03 | 42.15 |
| Petrakis & Stergiou, 1997 | 1994 | West Aegean Sea | 22 | <i>Micromesistius poutassou</i> | WHB | DM | 40 | NA | 21.17 | 4.11 | 5.29 | 40 |
| Petrakis & Stergiou, 1997 | 1994 | West Aegean Sea | 22 | <i>Micromesistius poutassou</i> | WHB | SM | 40 | NA | 16.96 | 4.4 | 4.24 | 40 |
| Politou <i>et al.</i> , 1997 | 1997 | Greece | 22 | <i>Micromesistius poutassou</i> | WHB | DM | NA | 32 | 4.1 | 6.9 | 1.28 | 32 |
| Politou <i>et al.</i> , 1997 | 1997 | Greece | 22 | <i>Micromesistius poutassou</i> | WHB | DM | NA | 40 | 13.2 | 4.8 | 3.3 | 40 |
| Politou <i>et al.</i> , 1997 | 1997 | Greece | 22 | <i>Micromesistius poutassou</i> | WHB | DM | NA | 48 | 14.2 | 4.9 | 2.96 | 48 |
| Politou <i>et al.</i> , 1997 | 1997 | Greece | 22 | <i>Micromesistius poutassou</i> | WHB | DM | NA | 52 | 16.1 | 6.5 | 3.1 | 52 |
| Sala & Luchetti, 2010 | 2005 | Central Adriatic Sea | 17 | <i>Micromesistius poutassou</i> | WHB | DM | 40 | 45.2 | 10.92 | 5.17 | 2.42 | 45.2 |
| Sala & Luchetti, 2010 | 2005 | Central Adriatic Sea | 17 | <i>Micromesistius poutassou</i> | WHB | DM | 40 | 45.2 | 15.12 | 4 | 3.35 | 45.2 |
| Sala & Luchetti, 2010 | 2005 | Central Adriatic Sea | 17 | <i>Micromesistius poutassou</i> | WHB | SM | 40 | 43.25 | 13.58 | 4.34 | 3.14 | 43.25 |
| Sala & Luchetti, 2010 | 2005 | Central Adriatic Sea | 17 | <i>Micromesistius poutassou</i> | WHB | SM | 40 | 43.25 | 18.47 | 2.64 | 4.27 | 43.25 |
| Sala & Luchetti, 2010 | 2005 | Central Adriatic Sea | 17 | <i>Micromesistius poutassou</i> | WHB | DM | 40 | 46.35 | 10.62 | 4.26 | 2.29 | 46.35 |
| Sala & Luchetti, 2010 | 2005 | Central Adriatic Sea | 17 | <i>Micromesistius poutassou</i> | WHB | DM | 40 | 46.35 | 15.38 | 4.69 | 3.32 | 46.35 |
| Soldo, 2004 | 2003 | Adriatic Sea | 17 | <i>Micromesistius poutassou</i> | WHB | DM | 48 | NA | 15.71 | 6.48 | 3.27 | 48 |

Continued

Table S2 continued

| References | Years | Area | GSA | Species | FAO Code | MC | NMS | MMS | L50 | SR | SF | MS-calc |
|-----------------------------|-------|------------------------|-----|---------------------------------|----------|-----|-----|-------|-------|------|------|---------|
| Soldo, 2004 | 2003 | Adriatic Sea | 17 | <i>Micromesistius poutassou</i> | WHB | DM | 48 | NA | 12.17 | 7.99 | 2.54 | 48 |
| Soldo, 2004 | 2003 | Adriatic Sea | 17 | <i>Micromesistius poutassou</i> | WHB | DM | 60 | NA | 22.31 | 5.23 | 3.72 | 60 |
| Soldo, 2004 | 2003 | Adriatic Sea | 17 | <i>Micromesistius poutassou</i> | WHB | DM | 60 | NA | 22.2 | 6.14 | 3.7 | 60 |
| Tokaç <i>et al.</i> , 2010 | 2004 | Eastern Aegean | 22 | <i>Micromesistius poutassou</i> | WHB | DM | 40 | 42.42 | 18.75 | 4.43 | 4.42 | 42.42 |
| Ates <i>et al.</i> , 2010 | 2007 | North Levant | 24 | <i>Mullus barbatus</i> | MUT | DM | 44 | 43.46 | 10.7 | 2.9 | 2.46 | 43.46 |
| Ates <i>et al.</i> , 2010 | 2007 | North Levant | 24 | <i>Mullus barbatus</i> | MUT | SM | 40 | 37.55 | 14.2 | 3.1 | 3.78 | 37.55 |
| Aydin <i>et al.</i> , 2011 | 2008 | Eastern Aegean | 22 | <i>Mullus barbatus</i> | MUT | SM | 40 | 40.8 | 14.4 | 2.5 | 3.53 | 40.8 |
| Aydin <i>et al.</i> , 2011 | 2008 | Eastern Aegean | 22 | <i>Mullus barbatus</i> | MUT | SM | 40 | 40.8 | 14.3 | 2.3 | 3.5 | 40.8 |
| Aydin <i>et al.</i> , 2011 | 2008 | Eastern Aegean | 22 | <i>Mullus barbatus</i> | MUT | DM | 50 | 50.1 | 15.2 | 4.4 | 3.03 | 50.1 |
| Aydin <i>et al.</i> , 2011 | 2008 | Eastern Aegean | 22 | <i>Mullus barbatus</i> | MUT | DM | 50 | 50.1 | 15.3 | 4.4 | 3.05 | 50.1 |
| Baino, 1998 | 1997 | Central Tyrrhenian Sea | 9 | <i>Mullus barbatus</i> | MUT | DM | 40 | NA | 9.02 | 1.98 | 2.26 | 40 |
| Baro <i>et al.</i> , 2007 | 2004 | Northern Alboran Sea | 1 | <i>Mullus barbatus</i> | MUT | DM | 40 | NA | 8.07 | 2.21 | 2.02 | 40 |
| Baro <i>et al.</i> , 2007 | 2004 | Northern Alboran Sea | 1 | <i>Mullus barbatus</i> | MUT | SM | 40 | NA | 11.5 | 1.79 | 2.88 | 40 |
| Brcic <i>et al.</i> , 2018b | 2018 | Central Tyrrhenian Sea | 9 | <i>Mullus barbatus</i> | MUT | DM | 50 | 51.9 | 10.35 | 9.11 | 1.99 | 51.9 |
| Burgaud & Dremiere, 1992 | 1982 | Gulf of Lyon | 7 | <i>Mullus barbatus</i> | MUT | DM | 32 | NA | 8.4 | 1.5 | 2.63 | 32 |
| Burgaud & Dremiere, 1992 | 1982 | Gulf of Lyon | 7 | <i>Mullus barbatus</i> | MUT | DM | 40 | NA | 9.3 | 4.1 | 2.33 | 40 |
| Burgaud & Dremiere, 1992 | 1982 | Gulf of Lyon | 7 | <i>Mullus barbatus</i> | MUT | DM | 44 | NA | 10.4 | 2 | 2.36 | 44 |
| Cicek, 2015 | 2015 | Eastern Mediterranean | 24 | <i>Mullus barbatus</i> | MUT | DM | 44 | NA | 9.27 | 4.61 | 2.11 | 44 |
| Demirci & Akyurt, 2017 | 2017 | Eastern Mediterranean | 24 | <i>Mullus barbatus</i> | MUT | DM | 44 | NA | 13.19 | 2.51 | 3 | 44 |
| Demirci & Akyurt, 2017 | 2017 | Eastern Mediterranean | 24 | <i>Mullus barbatus</i> | MUT | DM | 50 | NA | 17.52 | 6.94 | 3.5 | 50 |
| Demirci & Akyurt, 2017 | 2017 | Eastern Mediterranean | 24 | <i>Mullus barbatus</i> | MUT | SM | 40 | NA | 14.14 | 3.43 | 3.54 | 40 |
| Dereli & Aydin, 2016 | 2016 | Aegean Sea | 22 | <i>Mullus barbatus</i> | MUT | DM | 44 | 44.27 | 11.1 | 2 | 2.51 | 44.27 |
| Dereli & Aydin, 2016 | 2016 | Aegean Sea | 22 | <i>Mullus barbatus</i> | MUT | DM | 50 | 50.82 | 12.9 | 2.2 | 2.54 | 50.82 |
| Dereli & Aydin, 2016 | 2016 | Aegean Sea | 22 | <i>Mullus barbatus</i> | MUT | SM | 40 | 41.18 | 12.9 | 2 | 3.13 | 41.18 |
| Dereli & Aydin, 2016 | 2016 | Aegean Sea | 22 | <i>Mullus barbatus</i> | MUT | T90 | 40 | 42.42 | 13.6 | 3.1 | 3.21 | 42.42 |
| Ferretti & Frogli, 1975 | 1969 | Adriatic Sea | 17 | <i>Mullus barbatus</i> | MUT | DM | NA | 38 | 7.7 | 1.4 | 2.03 | 38 |
| Ferretti & Frogli, 1975 | 1970 | Adriatic Sea | 17 | <i>Mullus barbatus</i> | MUT | DM | NA | 35.5 | 8.5 | 1.6 | 2.39 | 35.5 |
| Ferretti & Frogli, 1975 | 1970 | Adriatic Sea | 17 | <i>Mullus barbatus</i> | MUT | DM | NA | 42 | 8.3 | 1.9 | 1.98 | 42 |

Continued

Table S2 continued

| References | Years | Area | GSA | Species | FAO Code | MC | NMS | MMS | L50 | SR | SF | MS-cale |
|---------------------------------|-------|------------------------|-----|------------------------|----------|----|-----|-------|-------|------|------|---------|
| Ferretti & Frogliola, 1975 | 1972 | Adriatic Sea | 17 | <i>Mullus barbatus</i> | MUT | DM | NA | 42.7 | 7.8 | 2.6 | 1.83 | 42.7 |
| Ferretti & Frogliola, 1975 | 1972 | Adriatic Sea | 17 | <i>Mullus barbatus</i> | MUT | DM | NA | 42.7 | 8.5 | 2 | 1.99 | 42.7 |
| Ferretti & Frogliola, 1975 | 1972 | Adriatic Sea | 17 | <i>Mullus barbatus</i> | MUT | DM | NA | 42.7 | 7 | 2.2 | 1.64 | 42.7 |
| Ferretti & Frogliola, 1975 | 1974 | Adriatic Sea | 17 | <i>Mullus barbatus</i> | MUT | DM | NA | 41.8 | 8.8 | 2.9 | 2.11 | 41.8 |
| Larraneta <i>et al.</i> , 1969 | 1969 | Golfo di Valencia | 6 | <i>Mullus barbatus</i> | MUT | DM | 34 | NA | 9.9 | NA | 2.91 | 34 |
| Larraneta <i>et al.</i> , 1969 | 1969 | Golfo di Valencia | 6 | <i>Mullus barbatus</i> | MUT | DM | 36 | NA | 10.6 | NA | 2.94 | 36 |
| Larraneta <i>et al.</i> , 1969 | 1969 | Golfo di Valencia | 6 | <i>Mullus barbatus</i> | MUT | DM | 40 | NA | 12.5 | NA | 3.13 | 40 |
| Larraneta <i>et al.</i> , 1969 | 1969 | Golfo di Valencia | 6 | <i>Mullus barbatus</i> | MUT | DM | 34 | NA | 10.5 | NA | 3.09 | 34 |
| Larraneta <i>et al.</i> , 1969 | 1969 | Golfo di Valencia | 6 | <i>Mullus barbatus</i> | MUT | DM | 46 | NA | 10 | NA | 2.17 | 46 |
| Larraneta <i>et al.</i> , 1969 | 1969 | Golfo di Valencia | 6 | <i>Mullus barbatus</i> | MUT | DM | 50 | NA | 14.6 | NA | 2.92 | 50 |
| Larraneta <i>et al.</i> , 1969 | 1969 | Golfo di Valencia | 6 | <i>Mullus barbatus</i> | MUT | DM | 52 | NA | 12.4 | NA | 2.38 | 52 |
| Lembo <i>et al.</i> , 2002 | 2001 | Central Tyrrhenian Sea | 10 | <i>Mullus barbatus</i> | MUT | DM | 40 | NA | 8.9 | 1.8 | 2.23 | 40 |
| Lembo <i>et al.</i> , 2002 | 2001 | Central Tyrrhenian Sea | 10 | <i>Mullus barbatus</i> | MUT | DM | 60 | NA | 13.2 | 4.1 | 2.2 | 60 |
| Levi <i>et al.</i> , 1971 | 1971 | Adriatic Sea | 17 | <i>Mullus barbatus</i> | MUT | DM | NA | 35.5 | 8.3 | NA | 2.34 | 35.5 |
| Livadas, 1988 | 1970 | Cyprus | 23 | <i>Mullus barbatus</i> | MUT | DM | 34 | 39.19 | 9.2 | 1.6 | 2.35 | 39.19 |
| Livadas, 1988 | 1970 | Cyprus | 23 | <i>Mullus barbatus</i> | MUT | DM | 34 | 39.19 | 9.9 | 2.2 | 2.53 | 39.19 |
| Livadas, 1988 | 1970 | Cyprus | 23 | <i>Mullus barbatus</i> | MUT | DM | 34 | 39.19 | 9.8 | 2 | 2.5 | 39.19 |
| Livadas, 1988 | 1970 | Cyprus | 23 | <i>Mullus barbatus</i> | MUT | DM | 40 | 46.38 | 14.7 | 2.9 | 3.17 | 46.38 |
| Livadas, 1988 | 1970 | Cyprus | 23 | <i>Mullus barbatus</i> | MUT | DM | 40 | 46.38 | 13.9 | 2.8 | 3 | 46.38 |
| Livadas, 1988 | 1970 | Cyprus | 23 | <i>Mullus barbatus</i> | MUT | DM | 40 | 46.38 | 17.9 | 2.4 | 3.86 | 46.38 |
| Lök <i>et al.</i> , 1997 | 1997 | Aegean Sea | 22 | <i>Mullus barbatus</i> | MUT | DM | 44 | NA | 13.68 | 2.92 | 3.11 | 44 |
| Lök <i>et al.</i> , 1997 | 1997 | Aegean Sea | 22 | <i>Mullus barbatus</i> | MUT | DM | 44 | NA | 15.06 | 3.24 | 3.42 | 44 |
| Lök <i>et al.</i> , 1997 | 1997 | Aegean Sea | 22 | <i>Mullus barbatus</i> | MUT | DM | 44 | NA | 14.32 | 2.14 | 3.25 | 44 |
| M'Rabet, 1994 | 1994 | Tunisia | 12 | <i>Mullus barbatus</i> | MUT | DM | 40 | 33.5 | 10.98 | | 3.28 | 33.5 |
| M'Rabet, 1994 | 1994 | Tunisia | 12 | <i>Mullus barbatus</i> | MUT | DM | 40 | 34.9 | 9.14 | | 2.62 | 34.9 |
| M'Rabet, 1998 | 1998 | Tunisia | 12 | <i>Mullus barbatus</i> | MUT | DM | 40 | 38.4 | 9.9 | 0.9 | 2.58 | 38.4 |
| M'Rabet, 1998 | 1998 | Tunisia | 12 | <i>Mullus barbatus</i> | MUT | DM | 48 | 44.2 | 13 | 1.1 | 2.94 | 44.2 |
| Mytilineou <i>et al.</i> , 2021 | 2014 | South Aegean Sea | 22 | <i>Mullus barbatus</i> | MUT | DM | 40 | 43.2 | 9.34 | 2 | 2.16 | 43.2 |

Continued

Table S2 continued

| References | Years | Area | GSA | Species | FAO Code | MC | NMS | MMS | L50 | SR | SF | MS-calc |
|---------------------------------|-------|-----------------------|-----|------------------------|----------|-----|-----|-------|-------|-------|------|---------|
| Mytilineou <i>et al.</i> , 2021 | 2014 | South Aegean Sea | 22 | <i>Mullus barbatus</i> | MUT | SM | 40 | 43.2 | 13.31 | 2.23 | 3.08 | 43.2 |
| Mytilineou <i>et al.</i> , 2021 | 2014 | South Aegean Sea | 22 | <i>Mullus barbatus</i> | MUT | DM | 50 | 51.1 | 10.83 | 4.73 | 2.12 | 51.1 |
| Özbilgin <i>et al.</i> , 2011 | 2003 | Aegean Sea | 22 | <i>Mullus barbatus</i> | MUT | DM | 40 | 42.4 | 10.06 | 2.05 | 2.37 | 42.4 |
| Özbilgin <i>et al.</i> , 2011 | 2003 | Aegean Sea | 22 | <i>Mullus barbatus</i> | MUT | DM | 40 | 42.4 | 11.14 | 2.14 | 2.63 | 42.4 |
| Özbilgin <i>et al.</i> , 2011 | 2003 | Aegean Sea | 22 | <i>Mullus barbatus</i> | MUT | DM | 40 | 42.4 | 10.76 | 2.27 | 2.54 | 42.4 |
| Özbilgin <i>et al.</i> , 2011 | 2003 | Aegean Sea | 22 | <i>Mullus barbatus</i> | MUT | DM | 40 | 42.4 | 10.95 | 1.91 | 2.58 | 42.4 |
| Ozbilgin <i>et al.</i> , 2015 | 2015 | Eastern Mediterranean | 24 | <i>Mullus barbatus</i> | MUT | DM | 44 | 44.5 | 7.1 | 6.7 | 1.6 | 44.5 |
| Ozbilgin <i>et al.</i> , 2015 | 2015 | Eastern Mediterranean | 24 | <i>Mullus barbatus</i> | MUT | SM | 40 | 41.36 | 14.1 | 2.6 | 3.41 | 41.36 |
| Ozbilgin <i>et al.</i> , 2015 | 2015 | Eastern Mediterranean | 24 | <i>Mullus barbatus</i> | MUT | DM | 44 | 42.03 | 8.4 | 5.2 | 2 | 42.03 |
| Ozbilgin <i>et al.</i> , 2015 | 2015 | Eastern Mediterranean | 24 | <i>Mullus barbatus</i> | MUT | DM | 50 | 51.14 | 12.1 | 4.7 | 2.37 | 51.14 |
| Petetta <i>et al.</i> , 2020 | 2019 | North Adriatic Sea | 17 | <i>Mullus barbatus</i> | MUT | DM | 54 | 55.2 | 16.7 | 2.78 | 3.03 | 55.2 |
| Petetta <i>et al.</i> , 2020 | 2019 | North Adriatic Sea | 17 | <i>Mullus barbatus</i> | MUT | T90 | 54 | 55.3 | 23.1 | 11.48 | 4.18 | 55.3 |
| Petrakis <i>et al.</i> , 2004 | 2004 | Aegean Sea | 22 | <i>Mullus barbatus</i> | MUT | DM | 40 | NA | 12.37 | 2.52 | 3.09 | 40 |
| Sala & Luchetti, 2011 | 2005 | Central Adriatic Sea | 17 | <i>Mullus barbatus</i> | MUT | DM | 48 | 46.5 | 10.74 | 4.59 | 2.31 | 46.5 |
| Sala & Luchetti, 2011 | 2005 | Central Adriatic Sea | 17 | <i>Mullus barbatus</i> | MUT | DM | 48 | 46.5 | 7.5 | 6.61 | 1.61 | 46.5 |
| Sala & Luchetti, 2011 | 2005 | Central Adriatic Sea | 17 | <i>Mullus barbatus</i> | MUT | DM | 56 | 56.75 | 12.78 | 4.63 | 2.25 | 56.75 |
| Sala & Luchetti, 2011 | 2005 | Central Adriatic Sea | 17 | <i>Mullus barbatus</i> | MUT | DM | 56 | 56.1 | 9.95 | 7.72 | 1.77 | 56.1 |
| Sala <i>et al.</i> , 2007 | 2004 | Adriatic Sea | 17 | <i>Mullus barbatus</i> | MUT | DM | 44 | 44.73 | 8.9 | 2.68 | 1.99 | 44.73 |
| Sala <i>et al.</i> , 2007 | 2004 | Adriatic Sea | 17 | <i>Mullus barbatus</i> | MUT | DM | 44 | 44.33 | 7.12 | 1.61 | 1.61 | 44.33 |
| Sala <i>et al.</i> , 2008 | 2004 | Adriatic Sea | 17 | <i>Mullus barbatus</i> | MUT | DM | 40 | 38.7 | 7.76 | 1.86 | 2.01 | 38.7 |
| Sala <i>et al.</i> , 2008 | 2004 | Adriatic Sea | 17 | <i>Mullus barbatus</i> | MUT | SM | 40 | 38.65 | 10.91 | 1.43 | 2.82 | 38.65 |
| Sala <i>et al.</i> , 2015 | 2006 | South Tyrrhenian Sea | 10 | <i>Mullus barbatus</i> | MUT | DM | 44 | 45.15 | 8.58 | 1.51 | 1.9 | 45.15 |
| Sala <i>et al.</i> , 2015 | 2006 | South Tyrrhenian Sea | 10 | <i>Mullus barbatus</i> | MUT | SM | 44 | 45.95 | 13.2 | 1.73 | 2.87 | 45.95 |
| Sala <i>et al.</i> , 2015 | 2006 | South Tyrrhenian Sea | 10 | <i>Mullus barbatus</i> | MUT | DM | 54 | 54.7 | 11.63 | 3.41 | 2.13 | 54.7 |
| Sala <i>et al.</i> , 2015 | 2006 | South Tyrrhenian Sea | 10 | <i>Mullus barbatus</i> | MUT | SM | 54 | 56.9 | 17.28 | 4.3 | 3.04 | 56.9 |
| Sala <i>et al.</i> , 2016 | 2012 | Adriatic sea | 17 | <i>Mullus barbatus</i> | MUT | SM | 41 | 41.05 | 13.07 | 2.34 | 3.18 | 41.05 |
| Sala <i>et al.</i> , 2016 | 2012 | Adriatic sea | 17 | <i>Mullus barbatus</i> | MUT | SM | 41 | 41.05 | 12.48 | 2.4 | 3.04 | 41.05 |
| Sala <i>et al.</i> , 2016 | 2012 | Adriatic sea | 17 | <i>Mullus barbatus</i> | MUT | SM | 41 | 41.5 | 10.29 | 1.43 | 2.48 | 41.5 |

Continued

Table S2 continued

| References | Years | Area | GSA | Species | FAO Code | MC | NMS | MMS | L50 | SR | SF | MS-cale |
|---------------------------------|-------|-----------------------|-----|----------------------------|----------|-----|-----|-------|-------|------|------|---------|
| Sala <i>et al.</i> , 2006 | 2004 | Adriatic Sea | 17 | <i>Mullus barbatus</i> | MUT | DM | 44 | 45 | 8.9 | 2.68 | 1.98 | 45 |
| Soldo, 2004 | 2003 | Adriatic Sea | 17 | <i>Mullus barbatus</i> | MUT | DM | 48 | NA | 13.49 | 1.74 | 2.81 | 48 |
| Tokaç <i>et al.</i> , 1998 | 1996 | Eastern Aegean | 22 | <i>Mullus barbatus</i> | MUT | DM | 36 | NA | 11.02 | 1.76 | 3.06 | 36 |
| Tokaç <i>et al.</i> , 1998 | 1996 | Eastern Aegean | 22 | <i>Mullus barbatus</i> | MUT | DM | 40 | NA | 12.19 | 2.15 | 3.05 | 40 |
| Tokaç <i>et al.</i> , 1998 | 1996 | Eastern Aegean | 22 | <i>Mullus barbatus</i> | MUT | DM | 44 | NA | 13.5 | 2.65 | 3.07 | 44 |
| Tokaç <i>et al.</i> , 1998 | 1996 | Eastern Aegean | 22 | <i>Mullus barbatus</i> | MUT | SM | 36 | NA | 11.82 | 1.58 | 3.28 | 36 |
| Tokaç <i>et al.</i> , 1998 | 1996 | Eastern Aegean | 22 | <i>Mullus barbatus</i> | MUT | SM | 40 | NA | 13.2 | 1.85 | 3.3 | 40 |
| Tokaç <i>et al.</i> , 1998 | 1996 | Eastern Aegean | 22 | <i>Mullus barbatus</i> | MUT | SM | 44 | NA | 14.67 | 2.89 | 3.33 | 44 |
| Tokaç <i>et al.</i> , 2004 | 2002 | Eastern Aegean | 22 | <i>Mullus barbatus</i> | MUT | DM | 36 | 37 | 12.7 | 1.8 | 3.43 | 37 |
| Tokaç <i>et al.</i> , 2004 | 2002 | Eastern Aegean | 22 | <i>Mullus barbatus</i> | MUT | DM | 36 | 37 | 12.8 | 1.8 | 3.46 | 37 |
| Tokaç <i>et al.</i> , 2004 | 2002 | Eastern Aegean | 22 | <i>Mullus barbatus</i> | MUT | DM | 40 | 41.9 | 10.7 | 1.9 | 2.55 | 41.9 |
| Tokaç <i>et al.</i> , 2004 | 2002 | Eastern Aegean | 22 | <i>Mullus barbatus</i> | MUT | DM | 40 | 41.9 | 10.7 | 1.9 | 2.55 | 41.9 |
| Tokaç <i>et al.</i> , 2014 | 2014 | Aegean Sea | 22 | <i>Mullus barbatus</i> | MUT | DM | 40 | 40.44 | 9.38 | 2.48 | 2.32 | 40.44 |
| Tokaç <i>et al.</i> , 2014 | 2014 | Aegean Sea | 22 | <i>Mullus barbatus</i> | MUT | DM | 44 | 44.33 | 11.53 | 2.72 | 2.6 | 44.33 |
| Tokaç <i>et al.</i> , 2014 | 2014 | Aegean Sea | 22 | <i>Mullus barbatus</i> | MUT | DM | 50 | 51.34 | 15.4 | 3.15 | 3 | 51.34 |
| Tokaç <i>et al.</i> , 2014 | 2014 | Aegean Sea | 22 | <i>Mullus barbatus</i> | MUT | T90 | 40 | 40.44 | 12.65 | 1.48 | 3.13 | 40.44 |
| Tokaç <i>et al.</i> , 2014 | 2014 | Aegean Sea | 22 | <i>Mullus barbatus</i> | MUT | T90 | 44 | 44.33 | 14.8 | 1.62 | 3.34 | 44.33 |
| Tosunoglu <i>et al.</i> , 2003b | 2002 | Eastern Aegean | 22 | <i>Mullus barbatus</i> | MUT | DM | 40 | 41.9 | 10.6 | 1.71 | 2.53 | 41.9 |
| Voliani & Abella, 1998 | 1991 | Tyrrhenian sea | 9 | <i>Mullus barbatus</i> | MUT | DM | 38 | NA | 9.3 | 1.5 | 2.45 | 38 |
| Livadas, 1988 | 1970 | Cyprus | 23 | <i>Mullus surmuletus</i> | MUR | DM | 34 | 39.19 | 12.5 | 2.9 | 3.19 | 39.19 |
| Mytilineou <i>et al.</i> , 2021 | 2014 | South Aegean Sea | 22 | <i>Mullus surmuletus</i> | MUR | DM | 40 | 43.2 | 8.4 | 2.2 | 1.94 | 43.2 |
| Mytilineou <i>et al.</i> , 2021 | 2014 | South Aegean Sea | 22 | <i>Mullus surmuletus</i> | MUR | SM | 40 | 43.2 | 12.04 | 1.65 | 2.79 | 43.2 |
| Mytilineou <i>et al.</i> , 2021 | 2014 | South Aegean Sea | 22 | <i>Mullus surmuletus</i> | MUR | DM | 50 | 51.1 | 10.84 | 5.81 | 2.12 | 51.1 |
| Ordines <i>et al.</i> , 2006 | 2003 | Balearic Islands | 5 | <i>Mullus surmuletus</i> | MUR | DM | 40 | NA | 4.5 | 5.8 | 1.13 | 40 |
| Ordines <i>et al.</i> , 2006 | 2003 | Balearic Islands | 5 | <i>Mullus surmuletus</i> | MUR | SM | 40 | NA | 12.2 | 2.1 | 3.05 | 40 |
| Demirci <i>et al.</i> , 2019 | 2012 | Eastern Aegean Sea | 24 | <i>Nemipterus randalli</i> | NNZ | DM | 44 | 44.7 | 9.34 | 3.45 | 2.09 | 44.7 |
| Demirci <i>et al.</i> , 2019 | 2012 | Eastern Aegean Sea | 24 | <i>Nemipterus randalli</i> | NNZ | DM | 44 | 44.7 | 10.02 | 1.8 | 2.24 | 44.7 |
| Ozbilgin <i>et al.</i> , 2015 | 2015 | Eastern Mediterranean | 24 | <i>Nemipterus randalli</i> | NNZ | DM | 44 | 44.5 | 5.8 | 13.5 | 1.3 | 44.5 |

Continued

Table S2 continued

| References | Years | Area | GSA | Species | FAO Code | MC | NMS | MMS | L50 | SR | SF | MS-calc |
|---------------------------------|-------|------------------------|-----|----------------------------|----------|----|-----|-------|-------|-------|------|---------|
| Ozbilgin <i>et al.</i> , 2015 | 2015 | Eastern Mediterranean | 24 | <i>Nemipterus randalli</i> | NNZ | SM | 40 | 41.36 | 14.3 | 2.4 | 3.46 | 41.36 |
| Ozbilgin <i>et al.</i> , 2015 | 2015 | Eastern Mediterranean | 24 | <i>Nemipterus randalli</i> | NNZ | DM | 44 | 42.03 | 9.9 | 7.2 | 2.36 | 42.03 |
| Ozbilgin <i>et al.</i> , 2015 | 2015 | Eastern Mediterranean | 24 | <i>Nemipterus randalli</i> | NNZ | DM | 50 | 51.14 | 11.6 | 11 | 2.27 | 51.14 |
| Bahamon <i>et al.</i> , 2006 | 2005 | Catalan Sea | 6 | <i>Nephrops norvegicus</i> | NEP | SM | 42 | 40.3 | 2.2 | 0.65 | 0.55 | 40.3 |
| Baro <i>et al.</i> , 2007 | 2004 | Northern Alboran Sea | 1 | <i>Nephrops norvegicus</i> | NEP | SM | 40 | NA | 2.13 | 0.62 | 0.53 | 40 |
| Brcic <i>et al.</i> , 2018a | 2012 | Central Tyrrhenian Sea | 9 | <i>Nephrops norvegicus</i> | NEP | DM | 50 | 51.9 | 1.787 | 0.312 | 0.34 | 51.9 |
| Brcic <i>et al.</i> , 2018a | 2012 | Central Tyrrhenian Sea | 9 | <i>Nephrops norvegicus</i> | NEP | DM | 50 | 51.9 | 2.174 | 0.312 | 0.42 | 51.9 |
| Brcic <i>et al.</i> , 2018a | 2012 | Central Tyrrhenian Sea | 9 | <i>Nephrops norvegicus</i> | NEP | SM | 40 | 40.2 | 2.027 | 0.312 | 0.50 | 40.2 |
| Brcic <i>et al.</i> , 2018a | 2012 | Central Tyrrhenian Sea | 9 | <i>Nephrops norvegicus</i> | NEP | SM | 40 | 40.2 | 2.414 | 0.312 | 0.60 | 40.2 |
| Guijaro & Massuti, 2006 | 2003 | Balearic Islands | 5 | <i>Nephrops norvegicus</i> | NEP | SM | 40 | NA | 2.66 | 0.34 | 0.67 | 40 |
| Guijaro & Massuti, 2006 | 2003 | Balearic Islands | 5 | <i>Nephrops norvegicus</i> | NEP | SM | 40 | NA | 2.46 | 0.15 | 0.62 | 40 |
| Kaykac <i>et al.</i> , 2009a | 2005 | Eastern Aegean | 22 | <i>Nephrops norvegicus</i> | NEP | DM | 40 | 42.58 | 1.6 | 0.45 | 0.38 | 42.58 |
| Kaykac <i>et al.</i> , 2009a | 2005 | Eastern Aegean | 22 | <i>Nephrops norvegicus</i> | NEP | DM | 40 | 43.68 | 1.94 | 0.59 | 0.44 | 43.68 |
| Mytilineou <i>et al.</i> , 1998 | 1995 | West Aegean Sea | 22 | <i>Nephrops norvegicus</i> | NEP | DM | 40 | 40.8 | 1.78 | 0.5 | 0.44 | 40.8 |
| Mytilineou <i>et al.</i> , 1998 | 1995 | West Aegean Sea | 22 | <i>Nephrops norvegicus</i> | NEP | DM | 48 | 47 | 2.01 | 0.66 | 0.43 | 47 |
| Mytilineou <i>et al.</i> , 1998 | 1995 | West Aegean Sea | 22 | <i>Nephrops norvegicus</i> | NEP | DM | 52 | 51.8 | 2.05 | 0.76 | 0.4 | 51.8 |
| Sala & Luchetti, 2010 | 2005 | Central Adriatic Sea | 17 | <i>Nephrops norvegicus</i> | NEP | DM | 40 | 45.2 | 1.46 | 0.51 | 0.32 | 45.2 |
| Sala & Luchetti, 2010 | 2005 | Central Adriatic Sea | 17 | <i>Nephrops norvegicus</i> | NEP | DM | 40 | 45.2 | 1.56 | 0.45 | 0.35 | 45.2 |
| Sala & Luchetti, 2010 | 2005 | Central Adriatic Sea | 17 | <i>Nephrops norvegicus</i> | NEP | SM | 40 | 43.25 | 1.93 | 0.75 | 0.45 | 43.25 |
| Sala & Luchetti, 2010 | 2005 | Central Adriatic Sea | 17 | <i>Nephrops norvegicus</i> | NEP | SM | 40 | 43.25 | 2.07 | 0.62 | 0.48 | 43.25 |
| Sala & Luchetti, 2010 | 2005 | Central Adriatic Sea | 17 | <i>Nephrops norvegicus</i> | NEP | DM | 40 | 46.35 | 1.76 | 0.96 | 0.38 | 46.35 |
| Sala & Luchetti, 2010 | 2005 | Central Adriatic Sea | 17 | <i>Nephrops norvegicus</i> | NEP | DM | 40 | 46.35 | 1.49 | 0.5 | 0.32 | 46.35 |
| Sala <i>et al.</i> , 2008 | 2004 | Adriatic Sea | 17 | <i>Nephrops norvegicus</i> | NEP | DM | 40 | 38.7 | 1.46 | 0.28 | 0.38 | 38.7 |
| Sala <i>et al.</i> , 2008 | 2004 | Adriatic Sea | 17 | <i>Nephrops norvegicus</i> | NEP | SM | 40 | 38.65 | 1.91 | 0.37 | 0.49 | 38.65 |
| Sarda <i>et al.</i> , 1993 | 1991 | West Mediterranean | 6 | <i>Nephrops norvegicus</i> | NEP | DM | 38 | NA | 1.49 | 0.36 | 0.39 | 38 |
| Sarda <i>et al.</i> , 1993 | 1991 | West Mediterranean | 6 | <i>Nephrops norvegicus</i> | NEP | DM | 42 | NA | 1.94 | 0.38 | 0.46 | 42 |
| Sarda <i>et al.</i> , 1993 | 1991 | West Mediterranean | 6 | <i>Nephrops norvegicus</i> | NEP | DM | 45 | NA | 1.89 | 0.34 | 0.42 | 45 |
| Sarda <i>et al.</i> , 1993 | 1991 | West Mediterranean | 6 | <i>Nephrops norvegicus</i> | NEP | DM | 52 | NA | 2.31 | 0.79 | 0.44 | 52 |

Continued

Table S2 continued

| References | Years | Area | GSA | Species | FAO Code | MC | NMS | MMS | L50 | SR | SF | MS-cale |
|---------------------------------|-------|------------------------|-----|----------------------------|----------|----|-----|-------|-------|------|------|---------|
| Sarda <i>et al.</i> , 1993 | 1991 | West Mediterranean | 6 | <i>Nephrops norvegicus</i> | NEP | DM | 60 | NA | 3.08 | 1.51 | 0.51 | 60 |
| Soldo, 2004 | 2003 | Adriatic Sea | 17 | <i>Nephrops norvegicus</i> | NEP | DM | 48 | NA | | 3.01 | 0 | 48 |
| Stergiou <i>et al.</i> , 1997 | 1994 | West Aegean Sea | 22 | <i>Nephrops norvegicus</i> | NEP | DM | 40 | NA | 2.28 | 0.95 | 0.57 | 40 |
| Stergiou <i>et al.</i> , 1997 | 1994 | West Aegean Sea | 22 | <i>Nephrops norvegicus</i> | NEP | SM | 40 | NA | 2.41 | 0.59 | 0.6 | 40 |
| Tokaç <i>et al.</i> , 2009 | 2004 | Aegean Sea | 22 | <i>Nephrops norvegicus</i> | NEP | DM | 40 | 42.42 | 1.59 | 0.52 | 0.37 | 42.42 |
| Tokaç <i>et al.</i> , 2009 | 2004 | Aegean Sea | 22 | <i>Nephrops norvegicus</i> | NEP | DM | 40 | 42.83 | 1.6 | 0.62 | 0.37 | 42.83 |
| Baino, 1998 | 1997 | Central Tyrrhenian Sea | 9 | <i>Octopus saluti</i> | OQT | DM | 40 | NA | 4.54 | 3.64 | 1.14 | 40 |
| Baro <i>et al.</i> , 2007 | 2004 | Northern Alboran Sea | 1 | <i>Octopus vulgaris</i> | OCC | DM | 40 | NA | 3.03 | 3.99 | 0.76 | 40 |
| Baro <i>et al.</i> , 2007 | 2004 | Northern Alboran Sea | 1 | <i>Octopus vulgaris</i> | OCC | SM | 40 | NA | 3.83 | 4.8 | 0.96 | 40 |
| Lembo <i>et al.</i> , 2002 | 2001 | Central Tyrrhenian Sea | 9 | <i>Octopus vulgaris</i> | OCC | DM | 40 | NA | 6.5 | 1.6 | 1.63 | 40 |
| Lembo <i>et al.</i> , 2002 | 2001 | Central Tyrrhenian Sea | 9 | <i>Octopus vulgaris</i> | OCC | DM | 60 | NA | 9.78 | 1.6 | 1.63 | 60 |
| Ordines <i>et al.</i> , 2006 | 2003 | Balearic Islands | 5 | <i>Octopus vulgaris</i> | OCC | DM | 40 | NA | 3.5 | 2.1 | 0.88 | 40 |
| Ordines <i>et al.</i> , 2006 | 2003 | Balearic Islands | 5 | <i>Octopus vulgaris</i> | OCC | SM | 40 | NA | 6 | 2.2 | 1.5 | 40 |
| Petrakis <i>et al.</i> , 2004 | 2004 | Aegean Sea | 22 | <i>Octopus vulgaris</i> | OCC | DM | 40 | NA | 5.22 | 1.58 | 1.3 | 40 |
| Ates <i>et al.</i> , 2010 | 2007 | North Levant | 24 | <i>Pagellus acarne</i> | SBA | DM | 44 | 43.46 | 11.8 | 2.4 | 2.72 | 43.46 |
| Aydin <i>et al.</i> , 2011 | 2008 | Eastern Aegean | 22 | <i>Pagellus acarne</i> | SBA | SM | 40 | 40.8 | 14.4 | 4 | 3.53 | 40.8 |
| Aydin <i>et al.</i> , 2011 | 2008 | Eastern Aegean | 22 | <i>Pagellus acarne</i> | SBA | DM | 50 | 50.1 | 15.3 | 2.4 | 3.05 | 50.1 |
| Ordines <i>et al.</i> , 2006 | 2003 | Balearic Islands | 5 | <i>Pagellus acarne</i> | SBA | SM | 40 | NA | 9.4 | 4.2 | 2.35 | 40 |
| Tokaç <i>et al.</i> , 1998 | 1996 | Eastern Aegean | 22 | <i>Pagellus acarne</i> | SBA | DM | 36 | NA | 10.61 | 2.21 | 2.95 | 36 |
| Tokaç <i>et al.</i> , 1998 | 1996 | Eastern Aegean | 22 | <i>Pagellus acarne</i> | SBA | DM | 40 | NA | 11.8 | 1.61 | 2.95 | 40 |
| Tokaç <i>et al.</i> , 1998 | 1996 | Eastern Aegean | 22 | <i>Pagellus acarne</i> | SBA | DM | 44 | NA | 14.16 | 1.38 | 3.22 | 44 |
| Tokaç <i>et al.</i> , 1998 | 1996 | Eastern Aegean | 22 | <i>Pagellus acarne</i> | SBA | SM | 36 | NA | 10.38 | 2.27 | 2.88 | 36 |
| Tokaç <i>et al.</i> , 1998 | 1996 | Eastern Aegean | 22 | <i>Pagellus acarne</i> | SBA | SM | 40 | NA | 12.36 | 1.77 | 3.09 | 40 |
| Tokaç <i>et al.</i> , 1998 | 1996 | Eastern Aegean | 22 | <i>Pagellus acarne</i> | SBA | SM | 44 | NA | 13.03 | 1.99 | 2.96 | 44 |
| Tosunoglu, 2007 | 1997 | Eastern Aegean | 22 | <i>Pagellus acarne</i> | SBA | DM | 44 | 45.7 | 13.6 | 1.9 | 2.98 | 45.7 |
| Tosunoglu <i>et al.</i> , 2003b | 2002 | Eastern Aegean | 22 | <i>Pagellus acarne</i> | SBA | DM | 40 | 41.9 | 11.6 | 2.08 | 2.77 | 41.9 |
| Ates <i>et al.</i> , 2010 | 2007 | North Levant | 24 | <i>Pagellus erythrinus</i> | PAC | DM | 44 | 43.46 | 11.8 | 1.6 | 2.72 | 43.46 |
| Ates <i>et al.</i> , 2010 | 2007 | North Levant | 24 | <i>Pagellus erythrinus</i> | PAC | SM | 40 | 37.55 | 11 | 2.6 | 2.93 | 37.55 |

Continued

Table S2 continued

| References | Years | Area | GSA | Species | FAO Code | MC | NMS | MMS | L50 | SR | SF | MS-calc |
|---------------------------------|-------|------------------------|-----|----------------------------|----------|----|-----|-------|-------|------|------|---------|
| Aydin <i>et al.</i> , 2011 | 2008 | Eastern Aegean | 22 | <i>Pagellus erythrinus</i> | PAC | SM | 40 | 40.8 | 13.1 | 0.7 | 3.21 | 40.8 |
| Aydin <i>et al.</i> , 2011 | 2008 | Eastern Aegean | 22 | <i>Pagellus erythrinus</i> | PAC | DM | 50 | 50.1 | 15 | 2 | 2.99 | 50.1 |
| Baino, 1998 | 1997 | Central Tyrrhenian Sea | 9 | <i>Pagellus erythrinus</i> | PAC | DM | 40 | NA | 8.11 | 1.9 | 2.03 | 40 |
| Cicek, 2015 | 2015 | Eastern Mediterranean | 24 | <i>Pagellus erythrinus</i> | PAC | DM | 44 | NA | 7 | 2.94 | 1.59 | 44 |
| Demirci & Akyurt, 2017 | 2017 | Eastern Mediterranean | 24 | <i>Pagellus erythrinus</i> | PAC | SM | 40 | NA | 14.05 | 2.03 | 3.51 | 40 |
| Demirci & Akyurt, 2017 | 2017 | Eastern Mediterranean | 24 | <i>Pagellus erythrinus</i> | PAC | DM | 44 | NA | 16.19 | 4.09 | 3.68 | 44 |
| Demirci & Akyurt, 2017 | 2017 | Eastern Mediterranean | 24 | <i>Pagellus erythrinus</i> | PAC | DM | 50 | NA | 17.06 | 2.87 | 3.41 | 50 |
| Joksimovic <i>et al.</i> , 2009 | 2004 | Adriatic Sea | 18 | <i>Pagellus erythrinus</i> | PAC | DM | NA | 27 | 7.6 | 0.87 | 2.81 | 27 |
| Joksimovic <i>et al.</i> , 2009 | 2004 | Adriatic Sea | 18 | <i>Pagellus erythrinus</i> | PAC | DM | NA | 32.2 | 8.68 | 1.16 | 2.7 | 32.2 |
| Joksimovic <i>et al.</i> , 2009 | 2004 | Adriatic Sea | 18 | <i>Pagellus erythrinus</i> | PAC | DM | NA | 35 | 10.82 | 2.83 | 3.09 | 35 |
| Joksimovic <i>et al.</i> , 2009 | 2004 | Adriatic Sea | 18 | <i>Pagellus erythrinus</i> | PAC | DM | NA | 44 | 15 | 3.34 | 3.41 | 44 |
| Joksimovic <i>et al.</i> , 2009 | 2004 | Adriatic Sea | 18 | <i>Pagellus erythrinus</i> | PAC | DM | NA | 70 | 15.26 | 2.1 | 2.18 | 70 |
| Livadas, 1988 | 1970 | Cyprus | 23 | <i>Pagellus erythrinus</i> | PAC | DM | 34 | 39.19 | 11.2 | 2.6 | 2.86 | 39.19 |
| M'Rabet, 1994 | 1994 | Tunisia | 12 | <i>Pagellus erythrinus</i> | PAC | DM | 40 | 33.5 | 10.4 | | 3.1 | 33.5 |
| M'Rabet, 1994 | 1994 | Tunisia | 12 | <i>Pagellus erythrinus</i> | PAC | DM | 40 | 34.9 | 13.34 | | 3.82 | 34.9 |
| Mytilineou <i>et al.</i> , 2021 | 2014 | South Aegean Sea | 22 | <i>Pagellus erythrinus</i> | PAC | DM | 40 | 43.2 | 9.72 | 2.69 | 2.25 | 43.2 |
| Mytilineou <i>et al.</i> , 2021 | 2014 | South Aegean Sea | 22 | <i>Pagellus erythrinus</i> | PAC | SM | 40 | 43.2 | 11.02 | 2.39 | 2.55 | 43.2 |
| Mytilineou <i>et al.</i> , 2021 | 2014 | South Aegean Sea | 22 | <i>Pagellus erythrinus</i> | PAC | DM | 50 | 51.1 | 13.4 | 3.43 | 2.62 | 51.1 |
| Ordines <i>et al.</i> , 2006 | 2003 | Balearic Islands | 5 | <i>Pagellus erythrinus</i> | PAC | SM | 40 | NA | 10.4 | 2 | 2.6 | 40 |
| Özbilgin <i>et al.</i> , 2003 | 2002 | Eastern Aegean | 22 | <i>Pagellus erythrinus</i> | PAC | DM | 40 | NA | 10.5 | 2.8 | 2.63 | 40 |
| Özbilgin <i>et al.</i> , 2015 | 2015 | Eastern Mediterranean | 24 | <i>Pagellus erythrinus</i> | PAC | DM | 44 | 44.5 | 8.3 | 2.5 | 1.87 | 44.5 |
| Özbilgin <i>et al.</i> , 2015 | 2015 | Eastern Mediterranean | 24 | <i>Pagellus erythrinus</i> | PAC | SM | 40 | 41.36 | 13 | 1.9 | 3.14 | 41.36 |
| Özbilgin <i>et al.</i> , 2015 | 2015 | Eastern Mediterranean | 24 | <i>Pagellus erythrinus</i> | PAC | DM | 44 | 42.03 | 11.7 | 5.2 | 2.78 | 42.03 |
| Özbilgin <i>et al.</i> , 2015 | 2015 | Eastern Mediterranean | 24 | <i>Pagellus erythrinus</i> | PAC | DM | 50 | 51.14 | 15.1 | 4.9 | 2.95 | 51.14 |
| Petrakis <i>et al.</i> , 2004 | 2004 | Aegean Sea | 22 | <i>Pagellus erythrinus</i> | PAC | DM | 40 | NA | 11.88 | 1.35 | 2.97 | 40 |
| Petrakis <i>et al.</i> , 2004 | 2004 | Aegean Sea | 22 | <i>Pagellus erythrinus</i> | PAC | DM | 40 | NA | 10.41 | 2.39 | 2.6 | 40 |
| Sala <i>et al.</i> , 2007 | 2004 | Adriatic Sea | 17 | <i>Pagellus erythrinus</i> | PAC | DM | 44 | 44.73 | 8.71 | 2.52 | 1.95 | 44.73 |
| Sala <i>et al.</i> , 2007 | 2004 | Adriatic Sea | 17 | <i>Pagellus erythrinus</i> | PAC | DM | 44 | 44.33 | 6.92 | 2.23 | 1.56 | 44.33 |

Continued

Table S2 continued

| References | Years | Area | GSA | Species | FAO Code | MC | NMS | MMS | L50 | SR | SF | MS-calc |
|---------------------------------|-------|------------------------|-----|---------------------------------|----------|-----|-----|-------|-------|-------|------|---------|
| Sala <i>et al.</i> , 2008 | 2004 | Adriatic Sea | 17 | <i>Pagellus erythrinus</i> | PAC | DM | 40 | 38.7 | 7.56 | 2.43 | 1.95 | 38.7 |
| Sala <i>et al.</i> , 2008 | 2004 | Adriatic Sea | 17 | <i>Pagellus erythrinus</i> | PAC | SM | 40 | 38.65 | 9.67 | 1.36 | 2.5 | 38.65 |
| Tokaç <i>et al.</i> , 2004 | 2002 | Eastern Aegean | 22 | <i>Pagellus erythrinus</i> | PAC | DM | 36 | 37 | 12.4 | 2.7 | 3.35 | 37 |
| Tokaç <i>et al.</i> , 2004 | 2002 | Eastern Aegean | 22 | <i>Pagellus erythrinus</i> | PAC | DM | 40 | 41.9 | 10.9 | 2.8 | 2.6 | 41.9 |
| Tokaç <i>et al.</i> , 2004 | 2002 | Eastern Aegean | 22 | <i>Pagellus erythrinus</i> | PAC | DM | 40 | 41.9 | 10.8 | 2.3 | 2.58 | 41.9 |
| Tokaç <i>et al.</i> , 2004 | 2002 | Eastern Aegean | 22 | <i>Pagellus erythrinus</i> | PAC | DM | 44 | 44.7 | 13.6 | 2 | 3.04 | 44.7 |
| Tokaç <i>et al.</i> , 2004 | 2002 | Eastern Aegean | 22 | <i>Pagellus erythrinus</i> | PAC | DM | 44 | 44.7 | 13.8 | 2.3 | 3.09 | 44.7 |
| Tokaç <i>et al.</i> , 2014 | 2014 | Aegean Sea | 22 | <i>Pagellus erythrinus</i> | PAC | DM | 40 | 40.44 | 8.99 | 2.45 | 2.22 | 40.44 |
| Tokaç <i>et al.</i> , 2014 | 2014 | Aegean Sea | 22 | <i>Pagellus erythrinus</i> | PAC | DM | 44 | 44.33 | 11.3 | 2.45 | 2.55 | 44.33 |
| Tokaç <i>et al.</i> , 2014 | 2014 | Aegean Sea | 22 | <i>Pagellus erythrinus</i> | PAC | DM | 50 | 51.34 | 15.45 | 2.45 | 3.01 | 51.34 |
| Tokaç <i>et al.</i> , 2014 | 2014 | Aegean Sea | 22 | <i>Pagellus erythrinus</i> | PAC | T90 | 40 | 40.44 | 10.52 | 1.38 | 2.6 | 40.44 |
| Tokaç <i>et al.</i> , 2014 | 2014 | Aegean Sea | 22 | <i>Pagellus erythrinus</i> | PAC | T90 | 44 | 44.33 | 12.97 | 1.28 | 2.93 | 44.33 |
| Tosunoglu 2007 | 1997 | Eastern Aegean | 22 | <i>Pagellus erythrinus</i> | PAC | DM | 44 | 45.7 | 12.4 | 2.6 | 2.71 | 45.7 |
| Tosunoglu <i>et al.</i> , 2003b | 2002 | Eastern Aegean | 22 | <i>Pagellus erythrinus</i> | PAC | DM | 40 | 41.9 | 10.8 | 2.02 | 2.58 | 41.9 |
| Petrakis <i>et al.</i> , 2004 | 2004 | Aegean Sea | 22 | <i>Pagrus pagrus</i> | RPG | DM | 40 | NA | 10.28 | 0.71 | 2.57 | 40 |
| Aydin & Tosunoglu, 2009 | 2007 | Aegean Sea | 22 | <i>Parapenaeus longirostris</i> | DPS | SM | 40 | 42.4 | 1.67 | 0.65 | 0.39 | 42.4 |
| Aydin & Tosunoglu, 2009 | 2007 | Aegean Sea | 22 | <i>Parapenaeus longirostris</i> | DPS | HEX | 40 | 42.6 | 1.74 | 0.62 | 0.41 | 42.6 |
| Aydin <i>et al.</i> , 2009 | 2007 | Eastern Aegean | 22 | <i>Parapenaeus longirostris</i> | DPS | DM | 44 | 44.7 | 1.69 | 0.59 | 0.38 | 44.7 |
| Aydin <i>et al.</i> , 2009 | 2007 | Eastern Aegean | 22 | <i>Parapenaeus longirostris</i> | DPS | DM | 44 | 44.7 | 1.69 | 0.65 | 0.38 | 44.7 |
| Baino, 1998 | 1997 | Central Tyrrhenian Sea | 9 | <i>Parapenaeus longirostris</i> | DPS | DM | 40 | NA | 1.28 | 0.16 | 0.32 | 40 |
| Baro <i>et al.</i> , 2007 | 2004 | Northern Alboran Sea | 1 | <i>Parapenaeus longirostris</i> | DPS | DM | 40 | NA | 1.62 | 0.27 | 0.41 | 40 |
| Baro <i>et al.</i> , 2007 | 2004 | Northern Alboran Sea | 1 | <i>Parapenaeus longirostris</i> | DPS | SM | 40 | NA | 1.72 | 0.6 | 0.43 | 40 |
| Belcari <i>et al.</i> , 2007 | 2004 | North Tyrrhenian Sea | 9 | <i>Parapenaeus longirostris</i> | DPS | DM | 40 | NA | 1.3 | 0.53 | 0.32 | 40 |
| Belcari <i>et al.</i> , 2007 | 2004 | North Tyrrhenian Sea | 9 | <i>Parapenaeus longirostris</i> | DPS | DM | 60 | NA | 2.23 | 1.2 | 0.37 | 60 |
| Brcic <i>et al.</i> , 2018a | 2012 | Central Tyrrhenian Sea | 9 | <i>Parapenaeus longirostris</i> | DPS | DM | 50 | 51.9 | 1.579 | 0.526 | 0.30 | 51.9 |
| Brcic <i>et al.</i> , 2018a | 2012 | Central Tyrrhenian Sea | 9 | <i>Parapenaeus longirostris</i> | DPS | DM | 50 | 51.9 | 1.782 | 0.425 | 0.34 | 51.9 |
| Brcic <i>et al.</i> , 2018a | 2012 | Central Tyrrhenian Sea | 9 | <i>Parapenaeus longirostris</i> | DPS | DM | 50 | 51.9 | 1.602 | 0.515 | 0.31 | 51.9 |
| Brcic <i>et al.</i> , 2018a | 2012 | Central Tyrrhenian Sea | 9 | <i>Parapenaeus longirostris</i> | DPS | DM | 50 | 51.9 | 1.806 | 0.414 | 0.35 | 51.9 |

Continued

Table S2 continued

| References | Years | Area | GSA | Species | FAO Code | MC | NMS | MMS | L50 | SR | SF | MS-calc |
|------------------------------|-------|------------------------|-----|---------------------------------|----------|-----|-----|-------|-------|-------|------|---------|
| Brici <i>et al.</i> , 2018a | 2012 | Central Tyrrhenian Sea | 9 | <i>Parapenaeus longirostris</i> | DPS | SM | 40 | 40.2 | 1.561 | 0.376 | 0.39 | 40.2 |
| Brici <i>et al.</i> , 2018a | 2012 | Central Tyrrhenian Sea | 9 | <i>Parapenaeus longirostris</i> | DPS | SM | 40 | 40.2 | 1.764 | 0.275 | 0.44 | 40.2 |
| Brici <i>et al.</i> , 2018a | 2012 | Central Tyrrhenian Sea | 9 | <i>Parapenaeus longirostris</i> | DPS | SM | 40 | 40.2 | 1.877 | 0.365 | 0.47 | 40.2 |
| Brici <i>et al.</i> , 2018a | 2012 | Central Tyrrhenian Sea | 9 | <i>Parapenaeus longirostris</i> | DPS | SM | 40 | 40.2 | 2.08 | 0.264 | 0.52 | 40.2 |
| Brici <i>et al.</i> , 2018b | 2018 | Central Tyrrhenian Sea | 9 | <i>Parapenaeus longirostris</i> | DPS | DM | 50 | 51.9 | 1.67 | 0.488 | 0.32 | 51.9 |
| Dereli <i>et al.</i> , 2016 | 2016 | Aegean Sea | 22 | <i>Parapenaeus longirostris</i> | DPS | DM | 44 | 44.27 | 2.12 | 0.49 | 0.48 | 44.27 |
| Dereli <i>et al.</i> , 2016 | 2016 | Aegean Sea | 22 | <i>Parapenaeus longirostris</i> | DPS | DM | 50 | 50.82 | 2.32 | 0.87 | 0.46 | 50.82 |
| Dereli <i>et al.</i> , 2016 | 2016 | Aegean Sea | 22 | <i>Parapenaeus longirostris</i> | DPS | SM | 40 | 41.18 | 2.08 | 0.4 | 0.51 | 41.18 |
| Dereli <i>et al.</i> , 2016 | 2016 | Aegean Sea | 22 | <i>Parapenaeus longirostris</i> | DPS | T90 | 40 | 42.42 | 2.05 | 1.01 | 0.48 | 42.42 |
| Deval <i>et al.</i> , 2009 | 2007 | North Levant | 24 | <i>Parapenaeus longirostris</i> | DPS | DM | 44 | 43.46 | 1.63 | 0.61 | 0.38 | 43.46 |
| Deval <i>et al.</i> , 2009 | 2007 | North Levant | 24 | <i>Parapenaeus longirostris</i> | DPS | SM | 40 | 37.55 | 1.82 | 0.55 | 0.48 | 37.55 |
| Deval <i>et al.</i> , 2016 | 2016 | Eastern Mediterranean | 24 | <i>Parapenaeus longirostris</i> | DPS | DM | 50 | NA | 2.14 | 0.93 | 0.43 | 50 |
| Deval <i>et al.</i> , 2016 | 2016 | Eastern Mediterranean | 24 | <i>Parapenaeus longirostris</i> | DPS | T90 | 50 | NA | 2.26 | 0.83 | 0.45 | 50 |
| Genç <i>et al.</i> , 2018 | 2015 | Eastern Aegean Sea | 22 | <i>Parapenaeus longirostris</i> | DPS | T90 | 44 | 45.4 | 1.75 | 0.57 | 0.39 | 45.4 |
| Genç <i>et al.</i> , 2018 | 2015 | Eastern Aegean Sea | 22 | <i>Parapenaeus longirostris</i> | DPS | T90 | 44 | 45.4 | 1.86 | 0.51 | 0.41 | 45.4 |
| Genç <i>et al.</i> , 2018 | 2015 | Eastern Aegean Sea | 22 | <i>Parapenaeus longirostris</i> | DPS | T90 | 40 | 40.4 | 1.71 | 0.6 | 0.42 | 40.4 |
| Goni, R., 1985 | 1985 | Morocco | 3 | <i>Parapenaeus longirostris</i> | DPS | DM | 39 | NA | 2 | NA | 0.51 | 39 |
| Goni, R., 1985 | 1985 | Morocco | 3 | <i>Parapenaeus longirostris</i> | DPS | DM | 60 | NA | 2.51 | NA | 0.42 | 60 |
| GRUND, 1999 | 1999 | South Ligurian Sea | 9 | <i>Parapenaeus longirostris</i> | DPS | DM | 34 | NA | 1.29 | NA | 0.38 | 34 |
| GRUND, 1999 | 1999 | North Tyrrhenian Sea | 9 | <i>Parapenaeus longirostris</i> | DPS | DM | 38 | NA | 1.06 | NA | 0.28 | 38 |
| GRUND, 1999 | 1999 | Central Tyrrhenian Sea | 9 | <i>Parapenaeus longirostris</i> | DPS | DM | 30 | NA | 1.14 | NA | 0.38 | 30 |
| GRUND, 1999 | 1999 | South Tyrrhenian Sea | 10 | <i>Parapenaeus longirostris</i> | DPS | DM | 36 | NA | 1.09 | NA | 0.3 | 36 |
| GRUND, 1999 | 1999 | Ionian Sea | 19 | <i>Parapenaeus longirostris</i> | DPS | DM | 36 | NA | 1.34 | NA | 0.37 | 36 |
| Guijaro & Massuti, 2006 | 2003 | Balearic Islands | 5 | <i>Parapenaeus longirostris</i> | DPS | DM | 40 | NA | 1.72 | 1.7 | 0.43 | 40 |
| Guijaro & Massuti, 2006 | 2003 | Balearic Islands | 5 | <i>Parapenaeus longirostris</i> | DPS | SM | 40 | NA | 2.06 | 2.1 | 0.52 | 40 |
| Guijaro & Massuti, 2006 | 2003 | Balearic Islands | 5 | <i>Parapenaeus longirostris</i> | DPS | DM | 40 | NA | 1.66 | 0.3 | 0.42 | 40 |
| Guijaro & Massuti, 2006 | 2003 | Balearic Islands | 5 | <i>Parapenaeus longirostris</i> | DPS | SM | 40 | NA | 2.02 | 0.23 | 0.51 | 40 |
| Kaykac <i>et al.</i> , 2009b | 2005 | Aegean Sea | 22 | <i>Parapenaeus longirostris</i> | DPS | DM | 40 | 42 | 1.45 | 0.56 | 0.35 | 42 |

Continued

Table S2 continued

| References | Years | Area | GSA | Species | FAO Code | MC | NMS | MMS | L50 | SR | SF | MS-cale |
|---------------------------------|-------|------------------------|-----|---------------------------------|----------|-----|-----|-------|-------|------|------|---------|
| Kaykac <i>et al.</i> , 2009b | 2005 | Aegean Sea | 22 | <i>Parapenaeus longirostris</i> | DPS | DM | 48 | 48.6 | 1.66 | 0.65 | 0.34 | 48.6 |
| Kaykac <i>et al.</i> , 2009b | 2005 | Aegean Sea | 22 | <i>Parapenaeus longirostris</i> | DPS | SM | 40 | 40.2 | 1.63 | 0.43 | 0.41 | 40.2 |
| Lembo <i>et al.</i> , 2002 | 2001 | Central Tyrrhenian Sea | 9 | <i>Parapenaeus longirostris</i> | DPS | DM | 40 | NA | 1.42 | 0.29 | 0.36 | 40 |
| Lembo <i>et al.</i> , 2002 | 2001 | Central Tyrrhenian Sea | 9 | <i>Parapenaeus longirostris</i> | DPS | DM | 60 | NA | 2 | 0.66 | 0.33 | 60 |
| Nouar, 1985 | 1985 | Algeria | 4 | <i>Parapenaeus longirostris</i> | DPS | DM | 40 | NA | 1.68 | NA | 0.42 | 40 |
| Petrakis <i>et al.</i> , 2004 | 2004 | Aegean Sea | 22 | <i>Parapenaeus longirostris</i> | DPS | DM | 40 | NA | 1.96 | 0.53 | 0.49 | 40 |
| Petrakis <i>et al.</i> , 2004 | 2004 | Aegean Sea | 22 | <i>Parapenaeus longirostris</i> | DPS | DM | 40 | NA | 1.96 | 0.53 | 0.49 | 40 |
| Petrakis <i>et al.</i> , 2004 | 2004 | Aegean Sea | 22 | <i>Parapenaeus longirostris</i> | DPS | DM | 40 | NA | 1.65 | 0.53 | 0.41 | 40 |
| Ragonese & Bianchini, 2006 | 1998 | North Tyrrhenian Sea | 10 | <i>Parapenaeus longirostris</i> | DPS | DM | 31 | NA | 1.28 | 0.23 | 0.41 | 31 |
| Ragonese & Bianchini, 2006 | 1997 | Strait of Sicily | 16 | <i>Parapenaeus longirostris</i> | DPS | DM | 31 | NA | 1.3 | 0.52 | 0.42 | 31 |
| Rinelli <i>et al.</i> , 2005 | 1997 | South Tyrrhenian Sea | 10 | <i>Parapenaeus longirostris</i> | DPS | DM | 36 | NA | 1.41 | 0.4 | 0.39 | 36 |
| Sala <i>et al.</i> , 2008 | 2004 | Adriatic Sea | 17 | <i>Parapenaeus longirostris</i> | DPS | DM | 40 | 38.7 | 1.2 | 0.24 | 0.31 | 38.7 |
| Sala <i>et al.</i> , 2008 | 2004 | Adriatic Sea | 17 | <i>Parapenaeus longirostris</i> | DPS | SM | 40 | 38.65 | 1.49 | 0.26 | 0.39 | 38.65 |
| Sbrana <i>et al.</i> , 2006 | 1999 | North Tyrrhenian Sea | 9 | <i>Parapenaeus longirostris</i> | DPS | DM | 40 | 35.93 | 1.24 | 0.31 | 0.34 | 35.93 |
| Tokaç <i>et al.</i> , 2009 | 2004 | Aegean Sea | 22 | <i>Parapenaeus longirostris</i> | DPS | DM | 40 | 42.42 | 1.27 | 0.62 | 0.3 | 42.42 |
| Tokaç <i>et al.</i> , 2009 | 2004 | Aegean Sea | 22 | <i>Parapenaeus longirostris</i> | DPS | DM | 40 | 42.83 | 1.43 | 0.64 | 0.33 | 42.83 |
| Tokaç <i>et al.</i> , 2009 | 2004 | Aegean Sea | 22 | <i>Parapenaeus longirostris</i> | DPS | DM | 40 | 42.42 | 1.25 | 0.61 | 0.29 | 42.42 |
| Tokaç <i>et al.</i> , 2009 | 2004 | Aegean Sea | 22 | <i>Parapenaeus longirostris</i> | DPS | DM | 40 | 42.83 | 1.39 | 0.7 | 0.33 | 42.83 |
| Tosunoglou <i>et al.</i> , 2007 | 2006 | Aegean Sea | 22 | <i>Parapenaeus longirostris</i> | DPS | DM | 46 | 49.44 | 1.97 | 0.61 | 0.4 | 49.44 |
| Aydin & Tosunoglu, 2010 | 2007 | Aegean Sea | 22 | <i>Phycis blennoides</i> | GFB | DM | 44 | 44.7 | 12.2 | 3.8 | 2.73 | 44.7 |
| Aydin & Tosunoglu, 2010 | 2007 | Aegean Sea | 22 | <i>Phycis blennoides</i> | GFB | SM | 40 | 42.4 | 15.8 | 6.3 | 3.73 | 42.4 |
| Aydin & Tosunoglu, 2010 | 2007 | Aegean Sea | 22 | <i>Phycis blennoides</i> | GFB | HEX | 40 | 42.6 | 12.7 | 8.5 | 2.98 | 42.6 |
| Bahamon <i>et al.</i> , 2006 | 2005 | Catalan Sea | 6 | <i>Phycis blennoides</i> | GFB | DM | 42 | 40.3 | 9.8 | 2.6 | 2.43 | 40.3 |
| Bahamon <i>et al.</i> , 2006 | 2005 | Catalan Sea | 6 | <i>Phycis blennoides</i> | GFB | SM | 42 | 40.3 | 14.8 | 1.7 | 3.67 | 40.3 |
| Belcari <i>et al.</i> , 2007 | 2004 | North Tyrrhenian Sea | 9 | <i>Phycis blennoides</i> | GFB | DM | 40 | NA | 11.95 | 3.17 | 2.99 | 40 |
| Belcari <i>et al.</i> , 2007 | 2004 | North Tyrrhenian Sea | 9 | <i>Phycis blennoides</i> | GFB | DM | 60 | NA | 17.23 | 5.38 | 2.87 | 60 |
| D'Onghia <i>et al.</i> , 2003 | 1998 | Ionian Sea | 19 | <i>Phycis blennoides</i> | GFB | DM | 40 | NA | 9.09 | 2.43 | 2.27 | 40 |
| D'Onghia <i>et al.</i> , 2003 | 1998 | Ionian Sea | 19 | <i>Phycis blennoides</i> | GFB | DM | 50 | NA | 11.24 | 2.72 | 2.25 | 50 |

Continued

Table S2 continued

| References | Years | Area | GSA | Species | FAO Code | MC | NMS | MMS | L50 | SR | SF | MS-calc |
|-------------------------------|-------|-----------------------|-----|----------------------------|----------|-----|-----|-------|-------|-------|------|---------|
| D'Onghia <i>et al.</i> , 2003 | 1998 | Ionian Sea | 19 | <i>Phycis blennooides</i> | GFB | DM | 60 | NA | 17.39 | 5.57 | 2.9 | 60 |
| Guijaro & Massuti, 2006 | 2003 | Balearic Islands | 5 | <i>Phycis blennooides</i> | GFB | DM | 40 | NA | 12.2 | 3 | 3.05 | 40 |
| Guijaro & Massuti, 2006 | 2003 | Balearic Islands | 5 | <i>Phycis blennooides</i> | GFB | SM | 40 | NA | 14.4 | 4 | 3.6 | 40 |
| Guijaro & Massuti, 2006 | 2003 | Balearic Islands | 5 | <i>Phycis blennooides</i> | GFB | DM | 40 | NA | 12 | 4.1 | 3 | 40 |
| Guijaro & Massuti, 2006 | 2003 | Balearic Islands | 5 | <i>Phycis blennooides</i> | GFB | SM | 40 | NA | 16.3 | 4.1 | 4.08 | 40 |
| Tokaç <i>et al.</i> , 2010 | 2004 | Eastern Aegean | 22 | <i>Phycis blennooides</i> | GFB | DM | 40 | 42.42 | 12.53 | 3.77 | 2.95 | 42.42 |
| Deval <i>et al.</i> , 2009 | 2007 | North Levant | 24 | <i>Plesionika martia</i> | LKT | DM | 44 | 43.46 | 1.41 | 0.5 | 0.32 | 43.46 |
| Deval <i>et al.</i> , 2009 | 2007 | North Levant | 24 | <i>Plesionika martia</i> | LKT | SM | 40 | 37.55 | 1.58 | 0.37 | 0.42 | 37.55 |
| Deval <i>et al.</i> , 2016 | 2016 | Eastern Mediterranean | 24 | <i>Plesionika martia</i> | LKT | DM | 50 | NA | 1.77 | 0.59 | 0.35 | 50 |
| Deval <i>et al.</i> , 2016 | 2016 | Eastern Mediterranean | 24 | <i>Plesionika martia</i> | LKT | T90 | 50 | NA | 1.96 | 0.5 | 0.39 | 50 |
| D'Onghia <i>et al.</i> , 1998 | 1996 | Ionian Sea | 19 | <i>Plesionika martia</i> | LKT | DM | 60 | NA | 1.77 | 0.62 | 0.3 | 60 |
| Guijaro & Massuti, 2006 | 2003 | Balearic Islands | 5 | <i>Plesionika martia</i> | LKT | DM | 40 | NA | 1.61 | 0.23 | 0.4 | 40 |
| Guijaro & Massuti, 2006 | 2003 | Balearic Islands | 5 | <i>Plesionika martia</i> | LKT | SM | 40 | NA | 1.85 | 0.22 | 0.46 | 40 |
| Guijaro & Massuti, 2006 | 2003 | Balearic Islands | 5 | <i>Plesionika martia</i> | LKT | DM | 40 | NA | 1.65 | 0.07 | 0.41 | 40 |
| Guijaro & Massuti, 2006 | 2003 | Balearic Islands | 5 | <i>Plesionika martia</i> | LKT | SM | 40 | NA | 1.82 | 0.2 | 0.46 | 40 |
| Burgaud & Dremiere, 1992 | 1982 | Gulf of Lyon | 7 | <i>Sardina pilchardus</i> | PIL | DM | 32 | NA | 13.2 | 3.9 | 4.13 | 32 |
| Burgaud & Dremiere, 1992 | 1982 | Gulf of Lyon | 7 | <i>Sardina pilchardus</i> | PIL | DM | 40 | NA | 15.5 | 2.4 | 3.88 | 40 |
| Burgaud & Dremiere, 1992 | 1982 | Gulf of Lyon | 7 | <i>Sardina pilchardus</i> | PIL | DM | 44 | NA | 16.6 | 3.6 | 3.77 | 44 |
| Petrakis <i>et al.</i> , 2004 | 2004 | Aegean Sea | 22 | <i>Sardina pilchardus</i> | PIL | DM | 40 | NA | 14.37 | 1.89 | 3.59 | 40 |
| Cicek, 2015 | 2015 | Eastern Mediterranean | 24 | <i>Saurida undosquamis</i> | LIB | DM | 44 | NA | 12.57 | 7.96 | 2.86 | 44 |
| Demirci & Akyurt, 2017 | 2017 | Eastern Mediterranean | 24 | <i>Saurida undosquamis</i> | LIB | SM | 40 | NA | 22.94 | 3.94 | 5.74 | 40 |
| Demirci & Akyurt, 2017 | 2017 | Eastern Mediterranean | 24 | <i>Saurida undosquamis</i> | LIB | DM | 44 | NA | 26.75 | 4.87 | 6.08 | 44 |
| Demirci & Akyurt, 2017 | 2017 | Eastern Mediterranean | 24 | <i>Saurida undosquamis</i> | LIB | DM | 50 | NA | 27.21 | 4.21 | 5.44 | 50 |
| Demirci & Simsek, 2017 | 2017 | Eastern Mediterranean | 22 | <i>Saurida undosquamis</i> | LIB | SM | 44 | NA | 18.41 | 4.62 | 4.18 | 44 |
| Demirci & Simsek, 2017 | 2017 | Eastern Mediterranean | 22 | <i>Saurida undosquamis</i> | LIB | SM | 44 | NA | 18.5 | 3.76 | 4.2 | 44 |
| Demirci <i>et al.</i> , 2019 | 2012 | Eastern Aegean Sea | 24 | <i>Saurida undosquamis</i> | LIB | DM | 44 | 44.7 | 16.44 | 6.17 | 3.68 | 44.7 |
| Demirci <i>et al.</i> , 2019 | 2012 | Eastern Aegean Sea | 24 | <i>Saurida undosquamis</i> | LIB | DM | 44 | 44.7 | 14.75 | 12.28 | 3.30 | 44.7 |
| Ozbilgin <i>et al.</i> , 2015 | 2015 | Eastern Mediterranean | 24 | <i>Saurida undosquamis</i> | LIB | DM | 44 | 44.5 | 8.3 | 11.6 | 1.87 | 44.5 |

Continued

Table S2 continued

| References | Years | Area | GSA | Species | FAO Code | MC | NMS | MMS | L50 | SR | SF | MS-cale |
|--------------------------------|-------|------------------------|-----|------------------------------|----------|-----|-----|-------|-------|------|------|---------|
| Ozbilgin <i>et al.</i> , 2015 | 2015 | Eastern Mediterranean | 24 | <i>Saurida undosquamis</i> | LIB | SM | 40 | 41.36 | 24.1 | 3.6 | 5.83 | 41.36 |
| Ozbilgin <i>et al.</i> , 2015 | 2015 | Eastern Mediterranean | 24 | <i>Saurida undosquamis</i> | LIB | DM | 44 | 42.03 | 23.4 | 8.9 | 5.57 | 42.03 |
| Ozbilgin <i>et al.</i> , 2015 | 2015 | Eastern Mediterranean | 24 | <i>Saurida undosquamis</i> | LIB | DM | 50 | 51.14 | 27.7 | 6.6 | 5.42 | 51.14 |
| Petetta <i>et al.</i> , 2020 | 2019 | North Adriatic Sea | 17 | <i>Scomber scombrus</i> | MAC | DM | 54 | 55.2 | 21.37 | 3.57 | 3.87 | 55.2 |
| Petetta <i>et al.</i> , 2020 | 2019 | North Adriatic Sea | 17 | <i>Scomber scombrus</i> | MAC | T90 | 54 | 55.3 | 22.08 | 2.72 | 3.99 | 55.3 |
| Ordines <i>et al.</i> , 2006 | 2003 | Balearic Islands | 5 | <i>Scorpaena notata</i> | SNQ | SM | 40 | NA | 9.7 | 1.2 | 2.43 | 40 |
| Ordines <i>et al.</i> , 2006 | 2003 | Balearic Islands | 5 | <i>Scorpaena scrofa</i> | RSE | SM | 40 | NA | 8.3 | 3.2 | 2.08 | 40 |
| Ordines <i>et al.</i> , 2006 | 2002 | Balearic Islands | 5 | <i>Scyliorhinus canicula</i> | SYC | DM | 40 | NA | 18.8 | 7.1 | 4.7 | 40 |
| Ordines <i>et al.</i> , 2006 | 2002 | Balearic Islands | 5 | <i>Scyliorhinus canicula</i> | SYC | SM | 40 | NA | 28.7 | 7 | 7.18 | 40 |
| Baro <i>et al.</i> , 2007 | 2004 | Northern Alboran Sea | 1 | <i>Sepia elegans</i> | EJE | DM | 40 | NA | 1.61 | 2.46 | 0.4 | 40 |
| Baro <i>et al.</i> , 2007 | 2004 | Northern Alboran Sea | 1 | <i>Sepia elegans</i> | EJE | SM | 40 | NA | 4.3 | 1.24 | 1.08 | 40 |
| Baro <i>et al.</i> , 2007 | 2004 | Northern Alboran Sea | 1 | <i>Sepia elegans</i> | EJE | DM | 40 | NA | 2.79 | 1.34 | 0.7 | 40 |
| Baro <i>et al.</i> , 2007 | 2004 | Northern Alboran Sea | 1 | <i>Sepia elegans</i> | EJE | SM | 40 | NA | 4.47 | 1.52 | 1.12 | 40 |
| Tosunoglu <i>et al.</i> , 2009 | 2007 | Eastern Aegean | 22 | <i>Sepia orbignyana</i> | IAR | DM | 44 | 44.7 | 3 | 1.2 | 0.67 | 44.7 |
| Tosunoglu <i>et al.</i> , 2009 | 2007 | Eastern Aegean | 22 | <i>Sepia orbignyana</i> | IAR | HEX | 40 | 42.6 | 3 | 1.5 | 0.7 | 42.6 |
| Tosunoglu <i>et al.</i> , 2009 | 2007 | Eastern Aegean | 22 | <i>Sepia orbignyana</i> | IAR | HEX | 40 | 42.6 | 3.1 | 1.4 | 0.73 | 42.6 |
| Tosunoglu <i>et al.</i> , 2009 | 2007 | Eastern Aegean | 22 | <i>Sepia orbignyana</i> | IAR | SM | 40 | 42.4 | 3.6 | 1.3 | 0.85 | 42.4 |
| Tosunoglu <i>et al.</i> , 2009 | 2007 | Eastern Aegean | 22 | <i>Sepia orbignyana</i> | IAR | SM | 40 | 42.4 | 3.8 | 1.3 | 0.9 | 42.4 |
| Baino, 1998 | 1997 | Central Tyrrhenian Sea | 9 | <i>Sepietta oweniana</i> | ITW | DM | 40 | NA | 2.2 | 0.9 | 0.55 | 40 |
| Ordines <i>et al.</i> , 2006 | 2003 | Balearic Islands | 5 | <i>Serranus cabrilla</i> | CBR | DM | 40 | NA | 9.3 | 2.5 | 2.33 | 40 |
| Ordines <i>et al.</i> , 2006 | 2003 | Balearic Islands | 5 | <i>Serranus cabrilla</i> | CBR | SM | 40 | NA | 14.1 | 2.7 | 3.53 | 40 |
| Petrakis <i>et al.</i> , 2004 | 2004 | Aegean Sea | 22 | <i>Serranus hepatus</i> | SRJ | DM | 40 | NA | 9 | 0.65 | 2.25 | 40 |
| Petrakis <i>et al.</i> , 2004 | 2004 | Aegean Sea | 22 | <i>Serranus hepatus</i> | SRJ | DM | 40 | NA | 8.51 | 0.65 | 2.13 | 40 |
| Petrakis <i>et al.</i> , 2004 | 2004 | Aegean Sea | 22 | <i>Serranus hepatus</i> | SPCF | DM | 40 | NA | 13.44 | 1.39 | 3.36 | 40 |
| Ates <i>et al.</i> , 2010 | 2007 | North Levant | 24 | <i>Spicara flexuosa</i> | BPI | DM | 44 | 43.46 | 14 | 2.7 | 3.22 | 43.46 |
| Ates <i>et al.</i> , 2010 | 2007 | North Levant | 24 | <i>Spicara maena</i> | BPI | SM | 40 | 37.55 | 15.7 | 2 | 4.18 | 37.55 |
| Aydin <i>et al.</i> , 2011 | 2008 | Eastern Aegean | 22 | <i>Spicara maena</i> | BPI | SM | 40 | 40.8 | 14.4 | 2.6 | 3.53 | 40.8 |
| Aydin <i>et al.</i> , 2011 | 2008 | Eastern Aegean | 22 | <i>Spicara maena</i> | BPI | DM | 50 | 50.1 | 17.2 | 7.1 | 3.43 | 50.1 |

Continued

Table S2 continued

| References | Years | Area | GSA | Species | FAO Code | MC | NMS | MMS | L50 | SR | SF | MS-calc |
|----------------------------------|-------|------------------------|-----|--------------------------------|----------|-----|-----|-------|-------|------|------|---------|
| Tosunoglou <i>et al.</i> , 2003a | 2003 | Eastern Mediterranean | NA | <i>Spicara maena</i> | BPI | DM | 40 | NA | 12.3 | 2.8 | 3.08 | 40 |
| Livadas, 1988 | 1970 | Cyprus | 23 | <i>Spicara smaris</i> | SPC | DM | 34 | 39.19 | 12 | 2.7 | 3.06 | 39.19 |
| Livadas, 1988 | 1970 | Cyprus | 23 | <i>Spicara smaris</i> | SPC | DM | 34 | 39.19 | 13.8 | 1.6 | 3.52 | 39.19 |
| Livadas, 1988 | 1970 | Cyprus | 23 | <i>Spicara smaris</i> | SPC | DM | 40 | 46.38 | 13.7 | 2.7 | 2.95 | 46.38 |
| Ordines <i>et al.</i> , 2006 | 2003 | Balearic Islands | 5 | <i>Spicara smaris</i> | SPC | DM | 40 | NA | 9 | 5.1 | 2.25 | 40 |
| Ordines <i>et al.</i> , 2006 | 2003 | Balearic Islands | 5 | <i>Spicara smaris</i> | SPC | SM | 40 | NA | 17.1 | 6.9 | 4.28 | 40 |
| Özbilgin <i>et al.</i> , 2007 | 2003 | Eastern Aegean | 22 | <i>Spicara smaris</i> | SPC | DM | 40 | 42.4 | 11.09 | 2.6 | 2.62 | 42.4 |
| Özbilgin <i>et al.</i> , 2007 | 2003 | Eastern Aegean | 22 | <i>Spicara smaris</i> | SPC | DM | 40 | 42.4 | 12.92 | 2.85 | 3.05 | 42.4 |
| Özbilgin <i>et al.</i> , 2007 | 2003 | Eastern Aegean | 22 | <i>Spicara smaris</i> | SPC | DM | 40 | 42.4 | 13.82 | 3.08 | 3.26 | 42.4 |
| Özbilgin <i>et al.</i> , 2007 | 2003 | Eastern Aegean | 22 | <i>Spicara smaris</i> | SPC | DM | 40 | 42.4 | 12.21 | 2.48 | 2.88 | 42.4 |
| Petrakis <i>et al.</i> , 2004 | 2004 | Aegean Sea | 22 | <i>Spicara smaris</i> | SPC | DM | 40 | NA | 14.52 | 2.59 | 3.63 | 40 |
| Tokaç <i>et al.</i> , 2004 | 2002 | Eastern Aegean | 22 | <i>Spicara smaris</i> | SPC | DM | 36 | 37 | 13.2 | 1.6 | 3.57 | 37 |
| Tokaç <i>et al.</i> , 2004 | 2002 | Eastern Aegean | 22 | <i>Spicara smaris</i> | SPC | DM | 36 | 37 | 13.3 | 1.3 | 3.59 | 37 |
| Tokaç <i>et al.</i> , 2004 | 2002 | Eastern Aegean | 22 | <i>Spicara smaris</i> | SPC | DM | 40 | 41.9 | 12.4 | 2.8 | 2.96 | 41.9 |
| Tokaç <i>et al.</i> , 2004 | 2002 | Eastern Aegean | 22 | <i>Spicara smaris</i> | SPC | DM | 40 | 41.9 | 12.4 | 2.4 | 2.96 | 41.9 |
| Tosunoglu <i>et al.</i> , 2003b | 2002 | Eastern Aegean | 22 | <i>Spicara smaris</i> | SPC | DM | 40 | 41.9 | 13.5 | 1.89 | 3.22 | 41.9 |
| Burgaud & Dremiere, 1992 | 1982 | Gulf of Lyon | 7 | <i>Sprattus sprattus</i> | SPR | DM | 32 | NA | 11.6 | 1.8 | 3.63 | 32 |
| Burgaud & Dremiere, 1992 | 1982 | Gulf of Lyon | 7 | <i>Sprattus sprattus</i> | SPR | DM | 44 | NA | 12 | 2.1 | 2.73 | 44 |
| Baino, 1998 | 1997 | Central Tyrrhenian Sea | 9 | <i>Squilla mantis</i> | MTS | DM | 40 | NA | 7.37 | 1.94 | 1.84 | 40 |
| Petetta <i>et al.</i> , 2020 | 2019 | North Adriatic Sea | 17 | <i>Squilla mantis</i> | MTS | DM | 54 | 55.2 | 13.35 | 8.86 | 2.42 | 55.2 |
| Petetta <i>et al.</i> , 2020 | 2019 | North Adriatic Sea | 17 | <i>Squilla mantis</i> | MTS | T90 | 54 | 55.3 | 20.78 | 4.36 | 3.76 | 55.3 |
| Ordines <i>et al.</i> , 2006 | 2002 | Balearic Islands | 5 | <i>Trachinus draco</i> | WEG | DM | 40 | NA | 13.3 | 1.5 | 3.33 | 40 |
| Ordines <i>et al.</i> , 2006 | 2002 | Balearic Islands | 5 | <i>Trachinus draco</i> | WEG | SM | 40 | NA | 18.1 | 2.7 | 4.53 | 40 |
| Petetta <i>et al.</i> , 2020 | 2019 | North Adriatic Sea | 17 | <i>Trachurus mediterraneus</i> | HMM | DM | 54 | 55.2 | 24.99 | 8.03 | 4.53 | 55.2 |
| Petetta <i>et al.</i> , 2020 | 2019 | North Adriatic Sea | 17 | <i>Trachurus mediterraneus</i> | HMM | T90 | 54 | 55.3 | 22.32 | 1.66 | 4.04 | 55.3 |
| Aydin & Tosunoglu, 2010 | 2007 | Aegean Sea | 22 | <i>Trachurus spp</i> | HOM | DM | 44 | 44.7 | 14.7 | 4.6 | 3.29 | 44.7 |
| Aydin & Tosunoglu, 2010 | 2007 | Aegean Sea | 22 | <i>Trachurus spp</i> | HOM | SM | 40 | 42.4 | 15.9 | 5.6 | 3.75 | 42.4 |
| Aydin & Tosunoglu, 2010 | 2007 | Aegean Sea | 22 | <i>Trachurus spp</i> | HOM | HEX | 40 | 42.6 | 17.1 | 5 | 4.01 | 42.6 |

Continued

Table S2 continued

| References | Years | Area | GSA | Species | FAO Code | MC | NMS | MMS | L50 | SR | SF | MS-calc |
|---------------------------------|-------|------------------------|-----|----------------------------|----------|-----|-----|-------|-------|-------|------|---------|
| Aydin & Tosunoglu, 2010 | 2007 | Aegean Sea | 22 | <i>Trachurus</i> spp | HOM | DM | 44 | 44.7 | 14.4 | 5.2 | 3.22 | 44.7 |
| Aydin & Tosunoglu, 2010 | 2007 | Aegean Sea | 22 | <i>Trachurus</i> spp | HOM | SM | 40 | 42.4 | 16.8 | 4.8 | 3.96 | 42.4 |
| Aydin & Tosunoglu, 2010 | 2007 | Aegean Sea | 22 | <i>Trachurus</i> spp | HOM | HEX | 40 | 42.6 | 17.2 | 5.9 | 4.04 | 42.6 |
| Baro <i>et al.</i> , 2007 | 2004 | Northern Alboran Sea | 1 | <i>Trachurus</i> spp | HOM | DM | 40 | NA | 11.9 | 2.8 | 2.98 | 40 |
| Baro <i>et al.</i> , 2007 | 2004 | Northern Alboran Sea | 1 | <i>Trachurus</i> spp | HOM | SM | 40 | NA | 14.8 | 1.1 | 3.7 | 40 |
| Belcari <i>et al.</i> , 2007 | 2004 | North Tyrrhenian Sea | 9 | <i>Trachurus</i> spp | HOM | DM | 40 | NA | 10.28 | 3.04 | 2.57 | 40 |
| Belcari <i>et al.</i> , 2007 | 2004 | North Tyrrhenian Sea | 9 | <i>Trachurus</i> spp | HOM | DM | 60 | NA | 19.83 | 10.52 | 3.31 | 60 |
| Burgaud & Dremiere, 1992 | 1982 | Gulf of Lyon | 7 | <i>Trachurus</i> spp | HOM | DM | 32 | NA | 11.2 | 2.7 | 3.5 | 32 |
| Burgaud & Dremiere, 1992 | 1982 | Gulf of Lyon | 7 | <i>Trachurus</i> spp | HOM | DM | 40 | NA | 12.7 | 3.5 | 3.18 | 40 |
| Dereli & Aydin, 2016 | 2016 | Aegean Sea | 22 | <i>Trachurus</i> spp | HOM | DM | 44 | 44.27 | 16.2 | 3.1 | 3.66 | 44.27 |
| Dereli & Aydin, 2016 | 2016 | Aegean Sea | 22 | <i>Trachurus</i> spp | HOM | DM | 50 | 50.82 | 14.2 | 4.2 | 2.79 | 50.82 |
| Dereli & Aydin, 2016 | 2016 | Aegean Sea | 22 | <i>Trachurus</i> spp | HOM | SM | 40 | 41.18 | 15.3 | 3.2 | 3.72 | 41.18 |
| Dereli & Aydin, 2016 | 2016 | Aegean Sea | 22 | <i>Trachurus</i> spp | HOM | T90 | 40 | 42.42 | 17.1 | 2.1 | 4.03 | 42.42 |
| Ferretti & Froggia, 1975 | 1970 | Adriatic Sea | 17 | <i>Trachurus</i> spp | HOM | DM | NA | 34 | 8.2 | 2.6 | 2.41 | 34 |
| Ferretti & Froggia, 1975 | 1972 | Adriatic Sea | 17 | <i>Trachurus</i> spp | HOM | DM | NA | 34 | 9.2 | 2.8 | 2.71 | 34 |
| Ferretti & Froggia, 1975 | 1972 | Adriatic Sea | 17 | <i>Trachurus</i> spp | HOM | DM | NA | 33.7 | 11 | 5.1 | 3.26 | 33.7 |
| Ordines <i>et al.</i> , 2006 | 2003 | Balearic Islands | 5 | <i>Trachurus</i> spp | HOM | DM | 40 | NA | 13.7 | 2.1 | 3.43 | 40 |
| Ordines <i>et al.</i> , 2006 | 2003 | Balearic Islands | 5 | <i>Trachurus</i> spp | HOM | SM | 40 | NA | 15.2 | 3 | 3.8 | 40 |
| Petrakis <i>et al.</i> , 2004 | 2004 | Aegean Sea | 22 | <i>Trachurus</i> spp | HOM | DM | 40 | NA | 14.11 | 3.1 | 3.53 | 40 |
| Petrakis <i>et al.</i> , 2004 | 2004 | Aegean Sea | 22 | <i>Trachurus</i> spp | HOM | DM | 40 | NA | 14.66 | 3.11 | 3.67 | 40 |
| Petrakis <i>et al.</i> , 2004 | 2004 | Aegean Sea | 22 | <i>Trachurus</i> spp | HOM | DM | 40 | NA | 14.66 | 3.11 | 3.67 | 40 |
| Petrakis <i>et al.</i> , 2004 | 2004 | Aegean Sea | 22 | <i>Trachurus</i> spp | HOM | DM | 40 | NA | 14.11 | 3.1 | 3.53 | 40 |
| Sala <i>et al.</i> , 2008 | 2004 | Adriatic Sea | 17 | <i>Trachurus</i> spp | HOM | DM | 40 | 38.7 | 9.71 | 2.75 | 2.51 | 38.7 |
| Sala <i>et al.</i> , 2008 | 2004 | Adriatic Sea | 17 | <i>Trachurus</i> spp | HOM | SM | 40 | 38.65 | 13.12 | 2.43 | 3.39 | 38.65 |
| Sarda <i>et al.</i> , 2006 | 2003 | NW Mediterranean | 6 | <i>Trachurus</i> spp | HOM | SM | 36 | NA | 14.03 | 2.48 | 3.9 | 36 |
| Tosunoglou <i>et al.</i> , 2008 | 2006 | Aegean Sea | 22 | <i>Trachurus</i> spp | HOM | DM | 50 | 49.44 | 15.6 | 5.5 | 3.16 | 49.44 |
| Brcic <i>et al.</i> , 2018a | 2012 | Central Tyrrhenian Sea | 9 | <i>Trachurus trachurus</i> | HOM | DM | 50 | 51.9 | 15.25 | 3.17 | 2.94 | 51.9 |
| Brcic <i>et al.</i> , 2018a | 2012 | Central Tyrrhenian Sea | 9 | <i>Trachurus trachurus</i> | HOM | DM | 50 | 51.9 | 13.03 | 3.17 | 2.51 | 51.9 |

Continued

Table S2 continued

| References | Years | Area | GSA | Species | FAO Code | MC | NMS | MMS | L50 | SR | SF | MS-calc |
|-------------------------------|-------|------------------------|-----|----------------------------|----------|-----|-----|-------|-------|------|------|---------|
| Breic <i>et al.</i> , 2018a | 2012 | Central Tyrrhenian Sea | 9 | <i>Trachurus trachurus</i> | HOM | DM | 50 | 51.9 | 7.31 | 3.17 | 1.41 | 51.9 |
| Breic <i>et al.</i> , 2018a | 2012 | Central Tyrrhenian Sea | 9 | <i>Trachurus trachurus</i> | HOM | DM | 50 | 51.9 | 5.09 | 3.17 | 0.98 | 51.9 |
| Breic <i>et al.</i> , 2018a | 2012 | Central Tyrrhenian Sea | 9 | <i>Trachurus trachurus</i> | HOM | SM | 40 | 40.2 | 14.47 | 2.25 | 3.60 | 40.2 |
| Breic <i>et al.</i> , 2018a | 2012 | Central Tyrrhenian Sea | 9 | <i>Trachurus trachurus</i> | HOM | SM | 40 | 40.2 | 12.26 | 2.25 | 3.05 | 40.2 |
| Breic <i>et al.</i> , 2018a | 2012 | Central Tyrrhenian Sea | 9 | <i>Trachurus trachurus</i> | HOM | SM | 40 | 40.2 | 6.53 | 2.25 | 1.62 | 40.2 |
| Breic <i>et al.</i> , 2018a | 2012 | Central Tyrrhenian Sea | 9 | <i>Trachurus trachurus</i> | HOM | SM | 40 | 40.2 | 4.31 | 2.25 | 1.07 | 40.2 |
| Breic <i>et al.</i> , 2018b | 2018 | Central Tyrrhenian Sea | 9 | <i>Trachurus trachurus</i> | HOM | DM | 50 | 51.9 | 15.17 | 4.72 | 2.92 | 51.9 |
| Genç <i>et al.</i> , 2018 | 2015 | Eastern Aegean Sea | 22 | <i>Trachurus trachurus</i> | HOM | T90 | 44 | 45.4 | 16.4 | 2.7 | 3.61 | 45.4 |
| Genç <i>et al.</i> , 2018 | 2015 | Eastern Aegean Sea | 22 | <i>Trachurus trachurus</i> | HOM | T90 | 44 | 45.4 | 17.1 | 3.4 | 3.77 | 45.4 |
| Genç <i>et al.</i> , 2018 | 2015 | Eastern Aegean Sea | 22 | <i>Trachurus trachurus</i> | HOM | T90 | 40 | 40.4 | 14.8 | 2.5 | 3.66 | 40.4 |
| Sarda <i>et al.</i> , 2006 | 2003 | NW Mediterranean | 6 | <i>Triglidae</i> | GUX | SM | 36 | NA | 12.63 | 2.31 | 3.51 | 36 |
| Bahamon <i>et al.</i> , 2006 | 2005 | Catalan Sea | 6 | <i>Trisopterus minutus</i> | POD | DM | 42 | 40.3 | 9.2 | 3 | 2.28 | 40.3 |
| Bahamon <i>et al.</i> , 2006 | 2005 | Catalan Sea | 6 | <i>Trisopterus minutus</i> | POD | SM | 42 | 40.3 | 13 | 3 | 3.23 | 40.3 |
| Belcari <i>et al.</i> , 2007 | 2004 | North Tyrrhenian Sea | 9 | <i>Trisopterus minutus</i> | POD | DM | 40 | NA | 10.94 | 4.54 | 2.74 | 40 |
| Belcari <i>et al.</i> , 2007 | 2004 | North Tyrrhenian Sea | 9 | <i>Trisopterus minutus</i> | POD | DM | 60 | NA | 16.13 | 5.14 | 2.69 | 60 |
| Breic <i>et al.</i> , 2018b | 2018 | Central Tyrrhenian Sea | 9 | <i>Trisopterus minutus</i> | POD | DM | 50 | 51.9 | 11.08 | 3.04 | 2.13 | 51.9 |
| Burgaud & Dremiere, 1992 | 1982 | Gulf of Lyon | 7 | <i>Trisopterus minutus</i> | POD | DM | 40 | NA | 10.9 | 2.2 | 2.73 | 40 |
| Burgaud & Dremiere, 1992 | 1982 | Gulf of Lyon | 7 | <i>Trisopterus minutus</i> | POD | DM | 44 | NA | 14.5 | 3.2 | 3.3 | 44 |
| Ferretti & Froggia, 1975 | 1970 | Adriatic Sea | 17 | <i>Trisopterus minutus</i> | POD | DM | NA | 35.5 | 10.4 | 2.9 | 2.93 | 35.5 |
| Ozbilgin <i>et al.</i> , 2005 | 2003 | Eastern Aegean | 22 | <i>Trisopterus minutus</i> | POD | DM | 40 | NA | 14.11 | 1.69 | 3.53 | 40 |
| Petrakis & Stergiou, 1997 | 1994 | West Aegean Sea | 22 | <i>Trisopterus minutus</i> | POD | DM | 40 | NA | 13.73 | 5.5 | 3.43 | 40 |
| Petrakis & Stergiou, 1997 | 1994 | West Aegean Sea | 22 | <i>Trisopterus minutus</i> | POD | SM | 40 | NA | 11.85 | 5.95 | 2.96 | 40 |
| Petrakis <i>et al.</i> , 2004 | 2004 | Aegean Sea | 22 | <i>Trisopterus minutus</i> | POD | DM | 40 | NA | 12 | 2.35 | 3 | 40 |
| Petrakis <i>et al.</i> , 2004 | 2004 | Aegean Sea | 22 | <i>Trisopterus minutus</i> | POD | DM | 40 | NA | 9.79 | 2.35 | 2.45 | 40 |
| Sala & Luchetti, 2010 | 2005 | Central Adriatic Sea | 17 | <i>Trisopterus minutus</i> | POD | DM | 40 | 45.2 | 6.2 | 1.29 | 1.37 | 45.2 |
| Sala & Luchetti, 2010 | 2005 | Central Adriatic Sea | 17 | <i>Trisopterus minutus</i> | POD | DM | 40 | 45.2 | 10.42 | 2.5 | 2.31 | 45.2 |
| Sala & Luchetti, 2010 | 2005 | Central Adriatic Sea | 17 | <i>Trisopterus minutus</i> | POD | SM | 40 | 43.25 | 10.19 | 3.59 | 2.36 | 43.25 |
| Sala & Luchetti, 2010 | 2005 | Central Adriatic Sea | 17 | <i>Trisopterus minutus</i> | POD | SM | 40 | 43.25 | 13.03 | 4 | 3.01 | 43.25 |

Continued

Table S2 continued

| References | Years | Area | GSA | Species | FAO Code | MC | NMS | MMS | L50 | SR | SF | MS-calc |
|-------------------------------|-------|-----------------------|-----|----------------------------|----------|----|-----|-------|-------|------|------|---------|
| Sala & Luchetti, 2010 | 2005 | Central Adriatic Sea | 17 | <i>Trisopterus minutus</i> | POD | DM | 40 | 46.35 | 8.64 | 3.23 | 1.86 | 46.35 |
| Sala & Luchetti, 2010 | 2005 | Central Adriatic Sea | 17 | <i>Trisopterus minutus</i> | POD | DM | 40 | 46.35 | 9.79 | 3 | 2.11 | 46.35 |
| Sala <i>et al.</i> , 2007 | 2004 | Adriatic Sea | 17 | <i>Trisopterus minutus</i> | POD | DM | 44 | 44.73 | 10.39 | 2.73 | 2.32 | 44.73 |
| Sala <i>et al.</i> , 2007 | 2004 | Adriatic Sea | 17 | <i>Trisopterus minutus</i> | POD | DM | 44 | 44.33 | 7.17 | 2.01 | 1.62 | 44.33 |
| Sala <i>et al.</i> , 2008 | 2004 | Adriatic Sea | 17 | <i>Trisopterus minutus</i> | POD | DM | 40 | 38.7 | 8.11 | 2.07 | 2.1 | 38.7 |
| Sala <i>et al.</i> , 2008 | 2004 | Adriatic Sea | 17 | <i>Trisopterus minutus</i> | POD | SM | 40 | 38.65 | 11.26 | 1.65 | 2.91 | 38.65 |
| Sarda <i>et al.</i> , 2006 | 2003 | NW Mediterranean | 6 | <i>Trisopterus minutus</i> | POD | SM | 36 | NA | 17.53 | 4.27 | 4.87 | 36 |
| Sbrana <i>et al.</i> , 1998 | 1992 | North Tyrrhenian Sea | 9 | <i>Trisopterus minutus</i> | POD | DM | NA | 34 | 7.3 | 1.64 | 2.15 | 34 |
| Ates <i>et al.</i> , 2010 | 2007 | North Levant | 24 | <i>Upeneus moluccensis</i> | UPM | SM | 40 | 37.55 | 15 | 2.7 | 3.99 | 37.55 |
| Demirci & Akyurt, 2017 | 2017 | Eastern Mediterranean | 24 | <i>Upeneus moluccensis</i> | UPM | SM | 40 | NA | 17.42 | 1.94 | 4.36 | 40 |
| Demirci & Akyurt, 2017 | 2017 | Eastern Mediterranean | 24 | <i>Upeneus moluccensis</i> | UPM | DM | 44 | NA | 12.21 | 2.71 | 2.78 | 44 |
| Demirci & Akyurt, 2017 | 2017 | Eastern Mediterranean | 24 | <i>Upeneus moluccensis</i> | UPM | DM | 50 | NA | 16.62 | 5.16 | 3.32 | 50 |
| Cicek, 2015 | 2015 | Eastern Mediterranean | 24 | <i>Upeneus</i> spp | UPM | DM | 44 | NA | 10.2 | 4.02 | 2.32 | 44 |
| Ozbilgin <i>et al.</i> , 2015 | 2015 | Eastern Mediterranean | 24 | <i>Upeneus</i> spp | UPM | DM | 44 | 44.5 | 5.1 | 7.2 | 1.15 | 44.5 |
| Ozbilgin <i>et al.</i> , 2015 | 2015 | Eastern Mediterranean | 24 | <i>Upeneus</i> spp | UPM | SM | 40 | 41.36 | 15.2 | 3.1 | 3.68 | 41.36 |
| Ozbilgin <i>et al.</i> , 2015 | 2015 | Eastern Mediterranean | 24 | <i>Upeneus</i> spp | UPM | DM | 44 | 42.03 | 12 | 5.3 | 2.86 | 42.03 |
| Ozbilgin <i>et al.</i> , 2015 | 2015 | Eastern Mediterranean | 24 | <i>Upeneus</i> spp | UPM | DM | 50 | 51.14 | 21 | 11.7 | 4.11 | 51.14 |

References for Table S2

- Abella, A., Serena, F., 1998. Selettività e vulnerabilità del nasello nella pesca a strascico. *Biologia Marina Mediterranea*, 5 (2), 496–504.
- Aldebert, Y., Carries, C., 1990. Application des populations virtuelles au stock de merlu du Golf du Lion. Impacte de modifications de regime d'exploitation. *FAO Rapport de Pêches*, 447, 143–150.
- Ateş, C., Deval, MC., Bök, T., Tosunoğlu, Z., 2010. Selectivity of diamond (PA) and square (PE) mesh codends for commercially important fish species in the Antalya Bay, Eastern Mediterranean. *Journal of Applied Ichthyology*, 26 (3), 465–471.
- Aydin, C., Tokaç, A., Ulaş, A., Maktay, B., Şensurat, T., 2011. Selectivity of 40 mm square and 50 mm diamond mesh codends for five species in the Eastern Mediterranean demersal trawl fishery. *African Journal of Biotechnology*, 10 (25), 5037–5047.
- Aydin, C., Tosunoğlu, Z., 2010. Selectivity of diamond, square and hexagonal mesh codends for Atlantic horse mackerel *Trachurus trachurus*, European hake *Merluccius merluccius*, and greater forkbeard *Phycis blennoides* in the eastern Mediterranean. *Journal of Applied Ichthyology*, 26 (1), 71–77. DOI: 10.1111/j.1439-0426.2009.01376.x.
- Aydin, C., Tosunoğlu, Z., 2009. Selectivity of square and hexagonal mesh codends for the deep water rose shrimp, *Parapenaeus longirostris* (Lucas, 1846) (Decapoda, Penaeidae) in the Aegean Sea. *Crustaceana*, 82 (1), 89–98. DOI: 10.1163/156854008X363704.
- Aydin, C., Tosunoğlu, Z., Özbilgin, H., 2009. Selectivity of double and single codends for the deep-water rose shrimp, *Parapenaeus longirostris* (Lucas, 1846) (Decapoda, Penaeidae) in the Aegean Sea trawl fishery. *Crustaceana*, 233–240.
- Bahamon, N., Sardà, F., Suuronen, P., 2006. Improvement of trawl selectivity in the NW Mediterranean demersal fishery by using a 40 mm square mesh codend. *Fisheries Research*, 81 (1), 15–25. DOI: 10.1016/j.fishres.2006.05.020.
- Baino, R., 1998. Data exploration sull'uso del cover nella campagna GRUND '97. Final Report. Bari (Italia).
- Baro, J., Muñoz de los Rejes, I., 2007. Comparación de los rendimientos pesqueros y la selectividad del arte de arrastre empleando mallas cuadradas y rómbicas en el copo. *Informes Técnicos Instituto Español De Oceanografía*, 23 pp.
- Belcari, P., Ranieri, S De., Ligas, A., Reale, B., Sartor, P., Viva, C., 2007. Selectivity of two diamond mesh size cod-ends in the trawl fishery of the Northern Tyrrhenian Sea (Western Mediterranean). *Rapport de la Commission Internationale de la Mer Méditerranée*, (38), 428.
- Brčić, J., Herrmann, B., Sala, A., 2018a. Can a square-mesh panel inserted in front of the cod end improve size and species selectivity in Mediterranean trawl fisheries? *Canadian Journal of Fisheries and Aquatic Sciences*, 75 (5), 704–713.
- Brčić, J., Herrmann, B., Sala, A., 2018b. Predictive models for codend size selectivity for four commercially important species in the Mediterranean bottom trawl fishery in spring and summer: Effects of codend type and catch size. *PLoS ONE*, 13 (10), 1–26. DOI: 10.1371/journal.pone.0206044.
- Burgaud, L., Drémière, PY., 1992. Sélectivité des chaluts à 4 faces en Méditerranée Test de sept méthodes d'analyse appliquées à sept espèces et trois maillages.
- Carlucci, R., Onghia, GD., Sion, L., Maiorano, P., Tursi, A., 2006. Selectivity parameters and size at first maturity in deep-water shrimps, *Aristaeomorpha foliacea* (Risso, 1827) and *Aristeus antennatus* (Risso, 1816), from the North-Western Ionian Sea (Mediterranean Sea). *Hydrobiologia*, 557, 145–154. DOI: 10.1007/s10750-005-1317-8.
- Çiçek, E., 2015. Bottom trawl selectivity parameters of four fish species from Karataş coasts of Turkey in Northeastern Mediterranean Waters. *Iranian Journal of Ichthyology*, 2 (2), 79–86. DOI: 10.22034/iji.v2i2.54.
- D'Onghia, G., Carlucci, R., Maiorano, P., Panza, M., 2003. Discards from deep-water bottom trawling in the Eastern-Central Mediterranean Sea and effects of mesh size changes. *Journal of Northwest Atlantic Fishery Science*, 31, 245–261. DOI: 10.2960/J.v31.a19.
- D'Onghia, G., Mastrotoaro, F., Maiorano, P., Basanisi, M., 1998. Selectivity of the trawl net on the slope (250-750 m) of the Ionian Sea (central Mediterranean Sea). *Biologia Marina Mediterranea*, 5 (2), 437–448.
- Demirci, S., Akyurt, İ., 2017. Size selectivity of square and diamond mesh trawl codend for fish with different body shapes. *Indian Journal of Geo-Marine Sciences*, 46 (4), 774–779.
- Demirci, S., Dogru, Z., Simsek, E., 2017. Effect of shortening the length of codend on brushtooth lizardfish caught in square mesh codend of otter trawl in eastern Mediterranean. *Indian Journal of Fisheries*, 64 (3), 29–34. DOI: 10.21077/ijf.2017.64.3.71048-05.
- Demirci, S., Demirci, A., Simsek, E., 2019. Negative effect of protective bag on trawl codend selectivity. *Indian Journal of Geo-Marine Sciences*, 48 (4), 499–503.
- Derehi, H., Aydin, C., 2016. Selectivity of commercial and alternative codends for four species in the Eastern Mediterranean demersal trawl fishery. *Turkish Journal of Fisheries and Aquatic Sciences*, 16, 971–992. DOI: 10.4194/1303-2712-v16_4_25.
- Derehi, H., Aydin, C., Belli, M., Lu, TK., Akpınar, İÖ., Şen, Y., 2016. Selectivity of commercial and experimental codends for the demersal trawl fishery of the deep-water rose shrimp, *Parapenaeus longirostris* (Lucas, 1846), in the Aegean Sea. *Crustaceana*, 89 (4), 477–493. DOI: 10.1163/15685403-00003532.
- Deval, MC., Bök, T., Ateş, C., Ulutürk, T., Tosunoğlu, Z., 2009. Comparison of the size selectivity of diamond (PA) and square (PE) mesh codends for deepwater crustacean species in the Antalya Bay, eastern Mediterranean. *Journal of Applied Ichthyology*, 25 (4), 372–380. DOI: 10.1111/j.1439-0426.2009.01239.x.
- Deval, MC., Özgen, G., Özbilgin, H., 2016. Selectivity of 50 mm T0 and T90 codends for commercial shrimp species in the Turkish deepwater trawl fishery, Eastern Mediterranean. *Journal of Applied Ichthyology*, 32 (6), 1041–1057. DOI: 10.1111/jai.13128.
- Drémière, PY., 1979. Parametres biologiques et dynamiques disponibles sur les principaux stocks haleutiques du Golf de Lion; sous zone 37-2 du CGPM. *FAO Rapport de Pêches*, 227 (115), 122.

- Ferretti, M., Froglija, C., 1975. Results of selectivity experiments, made with different trawls, on more important Adriatic demersal fish. *Quaderni del Laboratorio di tecnologia della pesca*, 2 (1), 3–16.
- Genç, TŞ., Atamanalp, M., Aydın, C., 2018. Selectivity of turned meshes codends for Deepwater Rose Shrimp (*Parapenaeus longirostris*), Horse Mackerel, (*Trachurus trachurus*) and European Hake (*Merluccius merluccius*) in the Aegean Sea. *Ege Journal of Fisheries and Aquatic Sciences*, 35 (2), 157–168. DOI: 10.12714/egejfas.2018.35.2.08.
- Gil de Sola Simarro, L., 1991. Trawl fisheries in the southern Mediterranean region, sector 37.1. 5. *FAO, Rapport sur les Peches (FAO)*.
- Gil de Sola Simarro, L., 1994. Demersal fishes of Alboran Sea continental shelf (SW Iberian Mediterranean). *Boletín del Instituto Espanol de Oceanografía (España)*.
- Goni, R., 1985. Selectividad de la merluza europea (*Merluccius merluccius* Linnaeus, 1758) y gamba blanca (*Parapenaeus longirostris* Lucas, 1846) con artes de arrastre de poliamida en las pesquerías de Africa Occidental, al norte de Cabo Blanco. p. 873–888 In: *Simposio Internacional Afl. Oeste Africa. Instituto Investigacion Pesquera Barcelona*.
- Gorelli, G., Company, JB., Bahamón, N., Sardà, F., 2017. Improving codend selectivity in the fishery of the deep-sea red shrimp *Aristeus antennatus* in the northwestern Mediterranean Sea. *Scientia Marina*, 81 (3), 381. DOI: 10.3989/scimar.04575.25a.
- Gorelli, G., Company, JB., Sardà, F., 2014. Management strategies of the red shrimp *Aristeus antennatus* in Catalonia (NE Spain). *Marine Stewardship Council Science Series*, 2 (February), 116–127.
- GRUND., 1999. Valutazione delle Risorse Demersali nei Mari Italiani: Selettività. *Relazione finale*.
- Guijarro, B., Massutí, E., 2006. Selectivity of diamond- and square-mesh codends in the deepwater crustacean trawl fishery off the Balearic Islands (western Mediterranean). *ICES Journal of Marine Science*, 63 (1), 52–67. DOI: 10.1016/j.icesjms.2005.08.011.
- Ilkyaz, AT., Sensurat, T., Dereli, H., Celalettin, A., 2017. Codends Selectivity for Bogue (*Boops boops* L., 1758) in the Eastern Mediterranean Demersal Trawl Fishery. *Turkish Journal of Fisheries and Aquatic Sciences*, 17, 673–680. DOI: 10.4194/1303-2712-v17_4_03.
- Joksimović, A., Regner, S., Sacchi, J., 2009. The effects of trawl codend mesh size selectivity on the length composition of catches of pandora, *Pagellus erythrinus* L. 1758 in the shelf area of the Montenegrin coast (South Adriatic). *Acta Adriatica: International Journal of Marine Sciences*, 50 (2), 151–157.
- Kaykaç, H., 2010. Size selectivity of commercial (300 MC) and larger square mesh top panel (LSMTPC) trawl codends for blue whiting (*Micromesistius poutassou* Risso, 1826) in the Aegean Sea. *African Journal of Biotechnology*, 9 (53), 9037–9041. DOI: 10.4314/ajb.v9i53.
- Kaykaç, H., Özbilgin, H., Tokaç, A., 2009a. Effects of mesh configuration on the selectivity of demersal trawl codends for *Nephrops norvegicus* (Linnaeus, 1758)(Decapoda, Nephropidae). *Crustaceana*, 82 (12), 1569–1578.
- Kaykaç, H., Tokaç, A., Özbilgin, H., 2009b. Selectivity of commercial, larger mesh and square mesh trawl codends for deep water rose shrimp *Parapenaeus longirostris* (Lucas, 1846) in the Aegean Sea. *Scientia Marina*, 73 (3), 597–604.
- Larrañeta, MG., Suau, P., San Feliu, JM., 1969. Experiencias de selectividad en la pesquería de arrastre en el levante español. *Inventario Pesquería*, 15–53.
- Lembo, P., Carbonara, P., Silecchia, T., Spedicato, MT., 2002. Prove di pesca a strascico con rete a doppio sacco per la valutazione della selettività dell’attrezzo e della qualità del prodotto. *Quaderni Scientifici Lega Pesca*, 2, 1–47.
- Levi, D., Froglija, C., Scorcelletti, R., 1971. Selettività di una rete di tipo relingato (chalut a grande ouverture verticale). *Quaderni del Laboratorio di tecnologia della pesca*, 1 (2), 23–35.
- Livadas, RJ., 1988. The selectivity of certain trawl cod-end in Cyprus. *FAO Rapport de Pêches*, 412, 180–189.
- Lök, A., Tokaç, A., Tosunoğlu, Z., Metin, C., Ferro, RST., 1997. The effects of different cod-end design on bottom trawl selectivity in Turkish fisheries of the Aegean Sea. *Fisheries Research*, 32 (2), 149–156.
- Lucchetti, A., 2008. Comparison of diamond- and square-mesh codends in the hake (*Merluccius merluccius* L. 1758) trawl fishery of the Adriatic Sea (central Mediterranean). *Scientia Marina*, 72 (3), 451–460. DOI: 10.3989/scimar.2008.72n3451.
- M’Rabet, R., 1994. Resultats preliminaires ues experiences de selectivite effectuees dans le Golfe de Tunis avec le chalut mediterraneen type tunisien et le chalut crevettier. *Bulletin de l’Institut National des Sciences de la Mer (INSTM Salammbô)*, 24–29.
- M’Rabet, R., 1998. Effet d’une augmentation de maillage sur la selective du chalut crevettier utilise. *Bulletin de l’Institut National des Sciences de la Mer (INSTM Salammbô)*, 25.
- Mytilineou, C., Fourtouni, A., Politou, CY., 1998. Trawl selectivity studies on *Nephrops norvegicus* (L.) in the eastern Mediterranean Sea. *Scientia Marina*, 62 (S1), 107–116.
- Mytilineou, C., Herrmann, B., Sala, A., Mantopoulou-Palouka, D., Megalofonou, P., 2021. Estimating overall size-selection pattern in the bottom trawl fishery for four economically important fish species in the Mediterranean Sea. *Ocean and Coastal Management*, 209 (January), 105653. DOI: 10.1016/j.ocecoaman.2021.105653.
- Nouar, A., 1985. Contribution a l’etude de la crevette peneide *Parapenaeus longirostris* (Lucas, 1846) dans la region d’Alger: Ecologie-Biologie-Exploitation. *These Universite de Sciences et Technologie H. Boumediene (USTHB)*.
- Ordines, F., Massutí, E., Guijarro, B., Mas, R., 2006. Diamond vs. square mesh codend in a multi-species trawl fishery of the western Mediterranean: Effects on catch composition, yield, size selectivity and discards. *Aquatic Living Resources*, 19 (4), 329–338. DOI: 10.1051/alr:2007003.
- Özbilgin, H., Eryaşar, AR., Gökçe, G., Özbilgin, YD., Bozaoğlu, AS., Kalecik, E., Herrmann, B., 2015. Size selectivity of hand and machine woven codends and short term commercial loss in the Northeastern Mediterranean. *Fisheries Research*, 164, 73–85. DOI: https://doi.org/10.1016/j.fishres.2014.10.022.
- Özbilgin, H., Tosunoğlu, Z., 2003. Comparison of the selectivities of double and single codends. *Fisheries Research*, 63 (1), 143–147.

- Özbilgin, H., Tosunoğlu, Z., Aydın, C., Kaykaç, H., Tokaç, A., 2005. Selectivity of standard, narrow and square mesh panel trawl codends for hake (*Merluccius merluccius*) and poor cod (*Trisopterus minutus capelanus*). *Turkish Journal of Veterinary and Animal Sciences*, 29 (4), 967–973.
- Özbilgin, H., Tosunoğlu, Z., Tokaç, A., Metin, G., 2007. Seasonal variation in the trawl codend selectivity of picarel (*Spicara smaris*). *ICES Journal of Marine Science*, 64 (8), 1569–1572.
- Özbilgin, H., Tosunoğlu, Z., Tokaç, A., Metin, G., 2011. Seasonal variation in the trawl codend selectivity of red mullet (*Mullus barbatus*). *Turkish Journal of Fisheries and Aquatic Sciences*, 11 (2), 191–198.
- Petetta, A., Herrmann, B., Virgili, M., De Marco, R., Canduci, G., Li Veli, D., Bargione, G., Vasapollo, C., Lucchetti, A., 2020. Estimating selectivity of experimental diamond (T0) and turned mesh (T90) codends in multi-species Mediterranean bottom trawl. *Mediterranean Marine Science*, 21 (3), 545–557. DOI: 10.12681/mms.22789.
- Petrakis, G., Holst, R., Chilari, A., Alidromiti, K., 2004. WP5.3 Assessment of the selectivity of trammel nets and of trawl codend. In: *Development of an integrated management system to support the sustainability of Greek fisheries resources*. Kavadas, S. (Ed.) HCMR, Athens.
- Petrakis, G., Stergiou, K.I., 1997. Size selectivity of diamond and square mesh codends for four commercial Mediterranean fish species. *ICES Journal of marine Science*, 54 (1), 13–23.
- Politou, C., Mytilineou, C., Fourtouni, A., 1997. Trawl selectivity studies on the commercially important by-catch species in *Nephrops* fisheries. In: *Proceedings of the 8th Panhellenic Congress of Ichthyologists*. Thessaloniki.
- Ragonese, S., Bianchini, M.L., 2006. Trawl selectivity trials on the deep-water rose shrimp (*Parapenaeus longirostris*) in Sicilian waters. p. 113–119 In: *Issues of Decapod Crustacean Biology*. Springer.
- Ragonese, S., Bianchini, M.L., Di Stefano, L., 2002. Trawl codend selectivity for deepwater red shrimp (*Aristaeomorpha foliacea*, Risso 1827) in the Strait of Sicily (Mediterranean Sea). *Fisheries Research*, 57, 131–144.
- Ragonese, S., Bianchini, M.L., Di Stefano, L., Campagnuolo, S., Bertolino, F., 1994. *Aristeus antennatus* and *Aristaeomorpha foliacea* in the Sicilian Channel. In: *Proceedings of the International Workshop on "Life cycles and fisheries of the deep-water red shrimps *Aristaeomorpha foliacea* and *Aristeus antennatus*."* Bianchini, M.L., Ragonese, S. (Eds.) Mazara del Vallo.
- Rinelli, P., Giordano, D., Perdichizzi, F., Greco, S., Ragonese, S., 2005. Trawl gear selectivity on the deep-water rose shrimp (*Parapenaeus longirostris*, Lucas, 1846) in the Southern Tyrrhenian Sea (central Mediterranean). *Cahiers de biologie marine*, 46 (1), 1–7.
- Sala, A., Herrmann, B., De Carlo, F., Lucchetti, A., Brčić, J., 2016. Effect of codend circumference on the size selection of square-mesh codends in trawl fisheries. *PLoS One*, 11 (7), e0160354.
- Sala, A., Lucchetti, A., 2010. The effect of mesh configuration and codend circumference on selectivity in the Mediterranean trawl *Nephrops* fishery. *Fisheries Research*, 103 (1–3), 63–72. DOI: 10.1016/j.fishres.2010.02.003.
- Sala, A., Lucchetti, A., 2011. Effect of mesh size and codend circumference on selectivity in the Mediterranean demersal trawl fisheries. *Fisheries Research*, 110 (2), 252–258. DOI: 10.1016/j.fishres.2011.04.012.
- Sala, A., Lucchetti, A., Buglioni, G., 2007. The influence of twine thickness on the size selectivity of polyamide codends in a Mediterranean bottom trawl. *Fisheries Research*, 83 (2–3), 192–203. DOI: 10.1016/j.fishres.2006.09.013.
- Sala, A., Lucchetti, A., Perdichizzi, A., Herrmann, B., Rinelli, P., 2015. Is square-mesh better selective than larger mesh? A perspective on the management for Mediterranean trawl fisheries. *Fisheries Research*, 161, 182–190. DOI: 10.1016/j.fishres.2014.07.011.
- Sala, A., Lucchetti, A., Piccinetti, C., Ferretti, M., 2008. Size selection by diamond- and square-mesh codends in multi-species Mediterranean demersal trawl fisheries. *Fisheries Research*, 93 (1–2), 8–21. DOI: 10.1016/j.fishres.2008.02.003.
- Sala, A., Priour, D., Herrmann, B., 2006. Experimental and theoretical study of red mullet (*Mullus barbatus*) selectivity in codends of Mediterranean bottom trawls. *Aquatic Living Resources*, 19 (4), 317–327.
- Sardà, F., Bahamon, N., Molí, B., Sardà-Palomera, F., 2006. The use of a square mesh codend and sorting grids to reduce catches of young fish and improve sustainability in a multispecies bottom trawl fishery in the Mediterranean. *Scientia Marina*, 70 (3), 347–353. DOI: 10.3989/scimar.2006.70n3347.
- Sardà, F., Conan, G.Y., Fusté, X., 1993. Selectivity of Norway lobster *Nephrops norvegicus* (L.) in the northwestern Mediterranean. *Scientia Marina*, 57, 167–174.
- Sbrana, M., Biagi, F., Sartor, P., De Ranieri, S., 1998. Selectivity of a commercial bottom trawl net in the Tuscan Archipelago (Northern Tyrrhenian Sea). *Biologia Marina Mediterranea*, 5 (2), 449–456.
- Sbrana, M., Reale, B., 1994. Selettività di una rete a strascico di tipo "italiano" sulla cattura di nasello (*Merluccius merluccius* L.) nell'Arcipelago Toscano. *Biologia Marina Mediterranea*, 1 (1), 313–314.
- Sbrana, M., Viva, C., Belcar, P., 2006. Fishery of the deep-water rose shrimp *Parapenaeus longirostris* (Lucas, 1846) (Crustacea: Decapoda) in the northern Tyrrhenian Sea (western Mediterranean). p. 135–144 In: *Issues of Decapod Crustacean Biology*, Springer.
- Soldo, A., 2004. Construction, technical characteristics and selectivity of bottom trawls in the Adriatic. PhD Thesis.
- Stergiou, K.I., Petrakis, G., Politou, C-Y., 1997. Size selectivity of diamond and square mesh cod-ends for *Nephrops norvegicus* in the Aegean Sea. *Fisheries research*, 29 (3), 203–209.
- Tokaç, A., Herrmann, B., Aydın, C., Kaykaç, H., Ünlüler, A., Gökçe, G., 2014. Predictive models and comparison of the selectivity of standard (T0) and turned mesh (T90) codends for three species in the Eastern Mediterranean. *Fisheries Research*, 150, 76–88. DOI: 10.1016/j.fishres.2013.10.015.
- Tokaç, A., Lök, A., Tosunoğlu, Z., Metin, C., Ferro, RST., 1998. Cod-end selectivities of a modified bottom trawl for three fish species in the Aegean Sea. *Fisheries Research*, 39 (1), 17–31.

- Tokaç, A., Özbilgin, H., Kaykac, H., 2009. Alternative codend designs to improve size selectivity for Norway lobster (*Nephrops norvegicus*) and rose shrimp (*Parapenaeus longirostris*) in the Aegean Sea. *Crustaceana*, 689–702.
- Tokaç, A., Özbilgin, HÖ., Kaykaç, H., 2010. Selectivity of conventional and alternative codend design for five fish species in the Aegean Sea. *Journal of Applied Ichthyology*, 26 (3), 403–409. DOI: 10.1111/j.1439-0426.2009.01379.x.
- Tokaç, A., Özbilgin, H., Tosunoğlu, Z., 2004. Effect of PA and PE material on codend selectivity in Turkish bottom trawl. *Fisheries Research*, 67 (3), 317–327. DOI: 10.1016/j.fishres.2003.10.001.
- Tosunoğlu, Z., 2007. Trawl codend design (44 mm diamond PE mesh) and the effect on selectivity for *Pagellus erythrinus* and *Pagellus acarne*, two species with different morphometrics. *Journal of Applied Ichthyology*, 23 (5), 578–582.
- Tosunoğlu, Z., Aydin, C., Ozaydin, O., Leblebici, S., 2007. Trawl cod end mesh selectivity of braided PE material for *Parapenaeus longirostris* (Lucas, 1846) (Decapoda, Penaeidae). *Crustaceana*, 1087–1094.
- Tosunoğlu, Z., Aydin, C., Özaydin, O., 2008. Selectivity of a 50-mm diamond mesh knotless polyethylene codend for commercially important fish species in the Aegean Sea. *Journal of Applied Ichthyology*, 24 (3), 311–315. DOI: 10.1111/j.1439-0426.2008.01067.x.
- Tosunoğlu, Z., Aydin, C., Salman, A., Fonseca, P., 2009. Selectivity of diamond, hexagonal and square mesh codends for three commercial cephalopods in the Mediterranean. *Fisheries Research*, 97 (1–2), 95–102. DOI: 10.1016/j.fishres.2009.01.006.
- Tosunoğlu, Z., Ozbilgin, H., Tokaç, A., 2003a. Effects of the protective bags on the codend selectivity in Turkish bottom trawl fishery. *Archive of Fishery and Marine Research*, 50 (3), 239–252.
- Tosunoğlu, Z., Özbilgin, YD., Özbilgin, H., 2003b. Body shape and trawl cod end selectivity for nine commercial fish species. *Journal of the Marine Biological Association of the United Kingdom*, 83 (6), 1309–1313.
- Vives, F., Bas Peired, C., López Gómez, JJ., Morales, E., 1966. La pesca de arrastre en la provincia de Tarragona. *Publicaciones Tèchnicas Junta Est Pesca*, 5, 263–303.
- Voliani, A., Abella, A., Serena, F., 1998. Problematiche inerenti la valutazione dello stato di sfruttamento di *Mullus barbatus*. *Biologia Marina Mediterranea*, 5 (2), 169–173.