

## 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 macropthalmus</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	Sinovic & Zorica (2006)
	7.9	M	255	17	Sinovic & 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
- 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.
- 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.
- 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.
- 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.
- 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](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, A.R., Hashem, M.T., 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, M.H., 2001. Taille a la premiere maturite sexuelle, periode de ponte et relation taille-poids chez le sparailon *Diplodus annularis* (L. 1758) des cotes 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. *Cybiurn*, 12 (4), 267–280.
- Politou, C.Y., Papaconstantinou, C., 1991. Population biology of *Trisopterus minutus capelanus* (Gadidae) from the eastern coast of Greece. *Cybiurn*, 15, 69–81.
- Ramadan, F.A., Ali, R.A., Ali, S., Gaballah, M.S.M., 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, G.J., 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, L.G., 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, A.T., Metin, G., Kinacıgil, H.T., 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, A.T., Metin, G., Kinacıgil, H.T., 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, A.T., Metin, G., Kinacıgil, H.T., 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	Aegean Sea	22	<i>Argentina sphyraena</i>	ARY	DM	40	NA	11.95	2.12	2.99	40
Carlucci <i>et al.</i> , 2006	2002	Ionian Sea	19	<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 & Dremiere, 1992	1982	Gulf of Lyon	7	<i>Engraulis encrasicolus</i>	ANE	DM	32	NA	13.4	3.2	4.19	32
Burgaud & Dremiere, 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 & Frogliola, 1975	1969	Adriatic Sea	17	<i>Mullus barbatus</i>	MUT	DM	NA	38	7.7	1.4	2.03	38
Ferretti & Frogliola, 1975	1970	Adriatic Sea	17	<i>Mullus barbatus</i>	MUT	DM	NA	35.5	8.5	1.6	2.39	35.5
Ferretti & Frogliola, 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>Spicara flexuosa</i>	SPCF	DM	40	NA	13.44	1.39	3.36	40
Ates <i>et al.</i> , 2010	2007	North Levant	24	<i>Spicara maena</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</i> spp	HOM	DM	44	44.7	14.7	4.6	3.29	44.7
Aydin & Tosunoglu, 2010	2007	Aegean Sea	22	<i>Trachurus</i> spp	HOM	SM	40	42.4	15.9	5.6	3.75	42.4
Aydin & Tosunoglu, 2010	2007	Aegean Sea	22	<i>Trachurus</i> spp	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 & Frogia, 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., Frogliola, 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., Frogliola, 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.