

**Life-history traits of the striped red mullet *Mullus surmuletus* (Linnaeus, 1758)  
in the south Aegean Sea (eastern Mediterranean)**

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**Supplementary Material**

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**Table S1.** Length at 50% maturity ( $L_{50}$ ), VBGF parameters ( $L_{inf}$ ,  $k$ ,  $t_0$ ), maximum observed age ( $A_m$ ), size range ( $L_T$ ) and length–weight relationship parameters ( $a$ ,  $b$ ,  $r^2$ ) of *Mullus surmuletus* in different locations (N, number of individuals; F, female; M, male; T, combined sexes;  $L_F$ , fork length).

Location	Sex	N	$L_{50}$	N	$L_T$ range	$a$	$b$	$r^2$	N	$L_{inf}$	$k$	$t_0$	$A_m$	Method	Reference
<b>Eastern Mediterranean Sea</b>															
South Aegean Sea (Greece)	F	593	153.3	593	103–320 $L_T$	0.0155	2.915	0.96	593	346.1	0.299	-0.984	5	otolith	<b>Present study</b>
	M	279	139.2	279	121–162 $L_T$	0.0032	2.976	0.98					3		
	T			1032	95–320 $L_T$	0.0013	2.943	0.96	872	373.2	0.255	-0.999	5		
Central Aegean Sea (Greece)	F	336	138.4	336	90–260 $L_F$	6E-06	3.229	0.99	336	413.0	0.100	-2.800	6	otolith	Vassilopoulou & Papaconstantinou (1992)
	M	451	115.5	451	100–200 $L_F$	5E-06	3.254	0.97	451	380.0	0.100	-2.760	5		
South Evoikos Gulf (Greece)	T			307	101–201 $L_F$	9E-06	3.140	0.97							Petrakis & Stergiou (1995)
Cyclades (Off Naxos, Greece)	T			257	138–320 $L_T$	0.0140	2.954	0.94							Moutopoulos & Stergiou (2002)
Off Crete Island (Greece)	T								1526	354.0	0.225	-1.194	5	scale	Machias <i>et al.</i> (1998)
Thermaikos Gulf and Thracian Sea (Greece)	F									248.0	0.260	-1.580		otolith	Papaconstantinou <i>et al.</i> (1994)
	M									220.0	0.270	-1.460			
	T			292	70–240 $L_F$	0.0116	3.149	0.99			0.270	-1.460			
NE Aegean Sea (Greece)	T			48	44–97 $L_T$	0.0045	3.510	0.99							Koutrakis & Tsikliras (2003)
Marmara Sea (Turkey)	F									344.8	0.210	-2.970			Moldur (1999)
	M									273.0	0.250	-2.110			
	T									328.3	0.230	-2.130			
North Aegean Sea (Turkey)	T			601	109–299 $L_T$	0.0069	3.192	0.98							Karakulak <i>et al.</i> (2006)
Saros Bay (eastern Aegean Sea, Turkey)	F		132.0	184	110–268	0.0110	3.020	0.95	124	283.8	0.190	-2.160	7	otolith	Arslan & İşmen (2013)
	M		137.0	118	118–198	0.0070	3.162	0.97	89	269.4	0.200	-2.340	3		
	T	656		656	96–268				272	278.2	0.200	-2.160	7		
Edremit Bay (eastern Aegean Sea, Turkey)	T		250.0	520	77–170 $L_T$	0.0044	3.356	0.94							Torcu-Koç <i>et al.</i> (2015)
	T									250.9	0.140	-2.480			Üstün (2010)
Izmir Bay (eastern Aegean Sea, Turkey)	T			192	66–226 $L_T$	0.0083	3.127	0.98		278.5	0.193	-1.578		otolith	İlhan <i>et al.</i> (2009)
	T			38	73–186 $L_T$	0.0131	2.970	0.98							Gökçe <i>et al.</i> (2007)
	T			117	74–619 $L_T$	0.0106	3.202	0.99							Özaydın & Taşkavak (2007)
Gulf of Antalya (Turkey)	T			45	137–245 $L_T$	0.0029	3.465	0.95							Özvarol (2014)
Babadıllımanı Bight (Turkey)	T			145	55–222 $L_T$	0.0082	3.110	0.98							Çicek <i>et al.</i> (2006)
Off Egypt	F		150.0												Hashem (1973)
	M		130.0												
	T			122	54–208 $L_T$	0.0110	3.030	0.86							Abdallah (2002)
	T	1835	151.0	1835	50–291 $L_T$	0.0104	3.062	0.98	1835	317.4	0.470	-0.300	5	otolith	Mehanna (2009)

Table S1 (continue)															
Location	Sex	N	$L_{50}$	N	$L_T$ range	$a$	$b$	$r^2$	N	$L_{inf}$	$k$	$t_0$	$A_m$	Method	Reference
<b>Central Mediterranean Sea</b>															
Southern Tyrrhenian and Ionian Seas (Italy)	F								301.2	0.240	-2.390			otolith	Andaloro (1982)
	M								250.2	0.300	-2.680				
	T				40–280	$L_T$	0.0067	3.205		311.0	0.240	-2.680			
Eastern Adriatic (Croatia)	T			127	154–309	$L_T$	3E-07	3.512	0.89						Dulčić & Kraljević (1996)
	T			47	125–285	$L_T$	0.0039	3.367	0.96						Dulčić & Glamuzina (2006)
Strait of Sicily (Italy)	F								297.5	0.490	-0.310			otolith	Andaloro & Giarritta (1985)
	M								262.5	0.410	-0.230				
	T				98–267		0.0093	3.070							
	T						0.0093	3.000							Djabali <i>et al.</i> (1993)
Off Tunisia	F		155.0				0.1443	3.280		218.2	0.510	-0.112		scale	Gharbi & Ktari (1981)
	M		130.0				0.1403	3.351		198.7	0.490	-0.025			
	T				80–230				202	215.1	0.500	-0.116	5		
	F								212.0	0.430	-0.650			otolith	Jabeur (1999)
	M								226.0	0.280	-1.070				
	T			123	50–230				123	223.0	0.344	-0.790	6		
<b>Western Mediterranean Sea</b>															
Off Morocco	F								323.0	0.540	-0.620			otolith	Lamrini (2010)
	M								303.0	0.520	-0.160				
	F			1037	123–381	$L_T$	0.0072	3.178	0.98	394.0	0.190	-1.030		otolith	Bakali <i>et al.</i> (2016)
	M			904	112–345	$L_T$	0.0068	3.173	0.97	356.4	0.130	-2.170			
T	2033			2033	112–381	$L_T$	0.0071	3.173	0.98	1520	392.0	0.130	-3.210	10	

Table S1 (continue)																
Location	Sex	N	$L_{50}$	N	$L_T$ range	$a$	$b$	$r^2$	N	$L_{inf}$	$k$	$t_0$	$A_m$	Method	Reference	
<b>Western Mediterranean Sea</b>																
Off Balearics	F								345.3	0.137	-3.821			otolith	Morales-Nin (1991)	
	M								232.9	0.288	-3.325					
	T				95–270	$L_T$	0.0160	2.913		297.6	0.238	-2.640				
	T		155.0		95–270	$L_T$				298.0	0.240	-2.320	4		Morales-Nin (1992)	
	F	604	168.0	1866	120–320	$L_T$	0.0095	3.109	0.97	1771	319.0	0.205	-2.605	6	otolith	Reñones <i>et al.</i> (1995)
	M	662	150.0	1429	100–280	$L_T$	0.0105	3.067	0.97	1342	255.4	0.273	-2.450	6		
T			3541	100–320	$L_T$	0.0091	3.120	0.98	3339	312.8	0.211	-2.348	6			
Off Algeria (Mostaganem coast)	F	322	177.0	322	120–240	$L_T$	0.0090	3.020	322	247.0	0.370	-0.370		LFD	Kherraz <i>et al.</i> (2014)	
	M	516		516	125–235	$L_T$	0.0100	2.980	516	255.2	0.320	-0.710				
	T	838		838	120–235	$L_T$	0.0090	2.934	838				8			
Catalan Sea (Spain)	T				120–320		0.0073	3.100	3339	325.2	0.110	-3.647	6	otolith	Sánchez <i>et al.</i> (1983)	
	T				50–200				309.4	0.110	-3.850			otolith	Morales-Nin (1986)	
Gulf of Lion (France)	F								334.0	0.430	-0.600			NA	Campillo (1992)	
	M								284.0	0.530	-0.440					
	T					$L_T$	0.0182	3.000								
	T						0.0067	3.000							Djabali <i>et al.</i> (1993)	
<b>Eastern Atlantic Ocean</b>																
Bay of Biscay (Spain)	T	493	155.0	493	166–436				493	377.0	0.290		9	otolith	N'Da (1992)	
	F								427.0	0.280	0.641				N'Da <i>et al.</i> (2006)	
	M								359.0	0.300	0.740					
Eastern English Channel and southern North Sea	F		169.0	736	114–425	$L_T$	3.2E-06	3.352	0.95	551	512.0	0.196	-2.904	7	otolith	Mahé <i>et al.</i> (2013)
	M		162.0	353	77–326	$L_T$	4.8E-06	3.177	0.98	320	364.0	0.218	-3.232	6		
	T			1089	77–425	$L_T$	3.3E-06	3.243	0.97	383	475.0	0.210		7		
North Sea	T								533.4	0.180	-1.230				Mahé <i>et al.</i> (2005)	
Gulf of Cadiz (SW Spain)	T			466	94–354	$L_T$	0.0054	3.282	0.98						Torres <i>et al.</i> (2012)	
East coast of Spain	T			146	77–254	$L_S$	0.0097	3.075	1.00						Vale <i>et al.</i> (2003)	
Off Portugal (SW coast)	T			299	215–380	$L_T$	2.4E-06	3.087	0.92						Gonçalves <i>et al.</i> (1996)	
Off Canary Islands	F		169.0	541	140–330	$L_T$	0.0074	3.179	0.96	221	369.3	0.190	-1.980		otolith	Pajuelo <i>et al.</i> (1997)
	M		163.0	235	140–260	$L_T$	0.0128	2.990	0.99	210	291.9	0.230	-1.760			
	T		166.0	1215	120–330	$L_T$	0.0074	3.183	0.99	723	357.1	0.220	-1.840	8		

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