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Length–Weight Relationships of 52 Species from the South of Sicily (Central Mediterranean Sea)

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Table S1. Comparison of available length–weight relationships from the South of Sicily. Length is reported in mm for crustaceans and in cm for cephalopods, bony and cartilaginous fishes. Weight is reported at 0.1 grams' accuracies for crustaceans and cephalopods and at grams for bony and cartilaginous fishes. SEX: F-female, M-male, and C-combined; N: the sample size; a: the intercept of the regression curve; b: the regression slope; R^2: the coefficient of determination, n.a.: not available, T.G.: Type of growth, A− negative allometry, A+ positive allometry and I isometric. Trawl: c - commercial, s – survey. In bold are reported the significantly difference (*t*-test $p_{value} < 0.05$) LWRs compared to the present study. In italic the species for which the literature comparison was not available.

Specie	SEX	N	Length (min–max)	a	b	R^2	T.G.	Locality	Trawl	Source
Crustaceans										
Aristaemorpha foliacea	F	4290	15–68	0.002	2.5663	0.99	A−	South of Sicily	s	Present study
	M	3226	19–52	0.001	2.671	0.95	A−	South of Sicily	s	Present study
	F	**n.a.**	**n.a.**	**0.001**	**2.66**	**n.a.**	**n.a.**	**South of Sicily**	**c**	**Gancitano et al. [39]**
	M	**n.a.**	**n.a.**	**0.002**	**2.51**	**n.a.**	**n.a.**	**South of Sicily**	**c**	**Gancitano et al. [39]**
	F	**n.a.**	**n.a.**	**0.0018–0.0021**	**2.51–2.56**	**n.a.**	**n.a.**	**South of Sicily**	**s**	**Ragonese et al. [40]**
	M	**n.a.**	**n.a.**	**0.0012–0.0013**	**2.56–2.65**	**n.a.**	**n.a.**	**South of Sicily**	**s**	**Ragonese et al. [40]**
	F	**n.a.**	**n.a.**	**0.001**	**2.68**	**n.a.**	**n.a.**	**Malta Island**	**s**	**MRRA [41]**
	M	**n.a.**	**n.a.**	**0.002**	**2.59**	**n.a.**	**n.a.**	**Malta Island**	**s**	**MRRA [41]**
	F	n.a.	n.a.	0.001	2.6065	n.a.	n.a.	Malta Island	c	MRRA [41]
	M	**n.a.**	**n.a.**	**0.006**	**2.2129**	**n.a.**	**n.a.**	**Malta Island**	**c**	**MRRA [41]**
Aristeus antennatus	F	710	18–59	0.0056	2.2591	0.98	A−	South of Sicily	s	Present study
	M	85	19–35	0.0083	2.1281	0.92	A−	South of Sicily	s	Present study

	F	n.a.	n.a.	0.008	2.17	n.a.	n.a.	Malta Island	s	AA.VV. [42]
	M	n.a.	n.a.	0.013	2.01	n.a.	n.a.	Malta Island	s	AA.VV. [42]
	F	**n.a.**	**n.a.**	**0.008**	**2.35**	**n.a.**	**n.a.**	**South of Sicily**	**s**	**AA.VV. [42]**
	M	**n.a.**	**n.a.**	**0.004**	**2.12**	**n.a.**	**n.a.**	**South of Sicily**	**s**	**AA.VV. [42]**
Nephrops norvegicus	F	2313	17–49	0.0006	3.0578	0.98	A+	South of Sicily	s	Present study
	M	3271	18–68	0.0005	3.115	0.99	A+	South of Sicily	s	Present study
	F	**n.a.**	**n.a.**	**0.0007**	**2.99**	**n.a.**	**n.a.**	**South of Sicily**	**c**	**Gancitano et al. [43]**
	M	**n.a.**	**n.a.**	**0.0004**	**3.2**	**n.a.**	**n.a.**	**South of Sicily**	**c**	**Gancitano et al. [43]**
	F	**n.a.**	**n.a.**	**0.0004**	**3.133**	**n.a.**	**n.a.**	**South of Sicily**	**s**	**Ragonese et al. [40]**
	M	**n.a.**	**n.a.**	**0.0004**	**3.158**	**n.a.**	**n.a.**	**South of Sicily**	**s**	**Ragonese et al. [40]**
Parapenaeus longirostris	F	25674	8–43	0.0035	2.4325	0.97	A−	South of Sicily	s	Present study
	M	21454	8–35	0.0052	2.2822	0.93	A−	South of Sicily	s	Present study
	F	**n.a.**	**n.a.**	**0.0029**	**2.482**	**n.a.**	**n.a.**	**Tunisia**	**c**	**Ben Meriem et al. [44]**
	M	**n.a.**	**n.a.**	**0.0035**	**2.41**	**n.a.**	**n.a.**	**Tunisia**	**c**	**Ben Meriem et al. [44]**
	F	**n.a.**	**n.a.**	**0.0036**	**2.44**	**n.a.**	**n.a.**	**South of Sicily**	**c**	**Gancitano et al. [43]**
	M	**n.a.**	**n.a.**	**0.0023**	**2.57**	**n.a.**	**n.a.**	**South of Sicily**	**c**	**Gancitano et al. [43]**
	F	**n.a.**	**n.a.**	**0.002-0.0031**	**2.48-2.55**	**n.a.**	**n.a.**	**South of Sicily**	**s**	**Ragonese et al. [40]**
	M	**n.a.**	**n.a.**	**0.0027-0.0041**	**2.40-2.50**	**n.a.**	**n.a.**	**South of Sicily**	**s**	**Ragonese et al. [40]**
Squilla mantis	C	127	78–182	0.0017	2.8296	0.91	A−	South of Sicily	s	Present study
	C	**n.a.**	**n.a.**	**0.0001**	**2.56**	**n.a.**	**n.a.**	**South of Sicily**	**c**	**Gancitano et al. [43]**
Cephalopods										
Eledone cirrhosa	C	307	3.5–15.0	0.3141	2.859	0.93	A−	South of Sicily	s	Present study
	C	n.a.	n.a.	0.2897	2.89	n.a.	n.a.	South of Sicily	c	Gancitano et al. [43]
	C	**803**	**3.0–16.5**	**0.3292**	**2.6972**	**0.9**	**A−**	**Tunisia**	**c-s**	**Rjeibi et al. [45]**
Eledone moschata	C	659	4.0–13.0	0.4677	2.6492	0.86	A−	South of Sicily	s	Present study
	C	n.a.	n.a.	0.62	2.51	n.a.	n.a.	South of Sicily	c	Gancitano et al. [39]
Illex coindetii	F	4652	3.5–21.5	0.0512	2.7595	0.97	A−	South of Sicily	s	Present study
	M	4102	4.0–19.0	0.0286	3.0797	0.95	A+	South of Sicily	s	Present study
	F	n.a.	n.a.	0.085	2.58	n.a.	n.a.	South of Sicily	c	Gancitano et al. [43]
	M	**n.a.**	**n.a.**	**0.084**	**2.65**	**n.a.**	**n.a.**	**South of Sicily**	**c**	**Gancitano et al. [43]**
	F	n.a.	n.a.	0.0430-0.0460	2.79-2.83	n.a.	n.a.	South of Sicily	s	Ragonese and Jereb, [46]
	M	n.a.	n.a.	0.021	3.19-3.21	n.a.	n.a.	South of Sicily	s	Ragonese and Jereb, [46]

Loligo. vulgaris	C	2625	4.0–45.0	0.107	2.5527	0.97	A−	South of Sicily	s	Present study
	C	**n.a.**	**n.a.**	**0.3407**	**2.12**	**n.a.**	**n.a.**	**South of Sicily**	**c**	**Gancitano et al. [43]**
Octopus vulgaris	C	398	4.0–19.5	0.3996	2.9715	0.93	I	South of Sicily	s	Present study
	C	n.a.	n.a.	0.5083	2.86	n.a.	n.a.	South of Sicily	c	**Gancitano et al. [43]**
	C	324	n.a.	0.3992	2.9146	0.97	I	Tunisia	c *	Jabeur et al. [47]
Sepia officinalis	F	150	4.0–19.0	0.3048	2.6484	0.99	A−	South of Sicily	s	Present study
	M	134	5.0–17.5	0.2474	2.7219	0.98	A−	South of Sicily	s	Present study
	F	n.a.	n.a.	0.2556	2.72	n.a.	n.a.	South of Sicily	c	Gancitano et al. [43]
	M	n.a.	n.a.	0.2945	2.65	n.a.	n.a.	South of Sicily	c	Gancitano et al. [43]
Bony fishes										
Boop boops	C	312	10.0–25.5	0.0064	3.1709	0.96	A+	South of Sicily	s	Present study
	C	**346**	**12.6–22.6**	**0.012**	**3.032**	**0.95**	**n.a.**	**Gulf of Gabes**	**c***	**Ghailen et al. [24]**
	C	**45**	**12.5–21.0**	**0.0119**	**2.887**	**0.98**	**A−**	**Gulf of Tunis**	c*	**Miled-Fathalli et al. [26]**
	C	**243**	**12.0–26.0**	**0.007**	**3.06**	**0.98**	**n.a.**	**Gulf of Tunis**	**s**	**Cherif et al. [48]**
	C	346	12.6–22.6	0.0102	3.034	0.95	n.a.	Gulf of Gabes	c*	Ghailen et al. [24]
Chelidonichthys lastoviza	C	682	5.5–21.5	0.0139	2.9326	0.97	A−	South of Sicily	s	Present study
	C	**52**	**11.8–22.0**	**0.0098**	**3.026**	**0.99**	**I**	**Gulf of Tunis**	c*	**Miled-Fathalli et al. [26]**
	C	1641	5.1–22.0	0.0111	2.9991	0.98	n.a.	South of Sicily		Cannizzaro et al. [49]
Chelidonichthys lucerna	C	450	5.0–71.0	0.0121	2.9219	0.99	A−	South of Sicily	s	Present study
	C	n.a.	n.a.	0.005	3.14	n.a.	n.a.	South of Sicily	c	Gancitano et al. [43]
	C	**256**	**11.7–27.9**	**0.0077**	**3.17**	**0.98**	**I**	**Tunisia**	**s**	**Rimel et al. [50]**
	C	735	5.1–44.1	0.0084	3.0263	0.99	n.a.	South of Sicily	s	Cannizzaro et al. [49]
Diplodus annularis	C	86	9.0–18.0	0.0384	2.728	0.97	A−	South of Sicily	s	Present study
	C	78	9.4–17.5	0.015	3.045	0.98	n.a.	Gulf of Tunis	c*	Miled-Fathalli et al. [26]
	C	**161**	**9.8–16.0**	**0.0253**	**3.012**	**0.95**	**n.a.**	**Gulf of Gabes**	**c***	**Ghailen et al. [24]**
	C	**470**	**9.6–17.0**	**0.012**	**2.9**	**0.98**	**n.a.**	**Gulf of Tunis**	**s**	**Cherif et al. [48]**
Engraulis enrasicolus	C	2313	8.5–16.5	0.0036	3.2233	0.87	A+	South of Sicily	s	Present study
	C	160	7.4–18.1	0.0031	3.2709	0.96	n.a.	South of Sicily	s	Cannizzaro et al. [49]
	C	**n.a.**	**n.a.**	**0.002**	**3.5298**	**n.a.**	**n.a.**	**South of Sicily**	**s**	**Basilone et al. [51]**
	C	**n.a.**	**n.a.**	**0.0014**	**3.37**	**n.a.**	**n.a.**	**South of Sicily**	**c**	**Gancitano et al. [52]**
Helicolenus dactylopterus	C	5069	2.0–34.0	0.0195	2.9479	0.99	A−	South of Sicily		Present study
	C	**85**	**11.5–24.0**	**0.0198**	**2.9**	**0.97**	**I**	**Gulf of Tunis**	c*	**Miled-Fathalli et al. [26]**

	C	513	8.0–30.6	0.022	2.87	0.99	n.a.	Northern Tunisian	s	Mili et al. [53]
	C	n.a.	2.0–33.0	0.0129	3.05	n.a.	n.a.	South of Sicily	s	Ragonese et al. [40]
	C	539	4.0–34.4	0.0145	3.0317	0.99	n.a.	South of Sicily	s	Cannizzaro et al. [49]
Lepidorhombus boscii	C	632	6.5–38.5	0.0058	3.1214	0.98	A+	South of Sicily	s	Present study
	C	1390	5.8–33.8	0.0044	3.2002	0.99	n.a.	South of Sicily	s	Cannizzaro et al. [49]
Lophius budegassa	F	232	10.5–78.0	0.0191	2.9097	0.99	A−	South of Sicily	s	Present study
	M	366	11.0–60.5	0.0241	2.8249	0.97	A−	South of Sicily	s	Present study
	F	n.a.	n.a.	0.018	2.95	n.a.	n.a.	South of Sicily	c	Gancitano et al. [54]
	M	n.a.	n.a.	0.0135	2.99	n.a.	n.a.	South of Sicily	c	Gancitano et al. [54]
Lophius piscatorius	C	95	13.0–113.0	0.0219	2.8909	0.99	A−	South of Sicily	s	Present study
	C	138	6.3–64.0	0.0273	2.8472	0.98	n.a.	South of Sicily	s	Cannizzaro et al. [49]
	C	**121**	**23.7–67.4**	**0.034**	**2.91**	**0.88**	**I**	**Tunisia**	**s**	**Rimel et al. [50]**
	C	n.a.	n.a.	0.0146	2.99	n.a.	n.a.	South of Sicily	c	Gancitano et al. [43]
Merluccius merluccius	C	16933	10.0–80.5	0.0051	3.1107	0.99	A+	South of Sicily	s	Present study
	C	n.a.	n.a.	0.0053	3.09	n.a.	n.a.	South of Sicily	c	Gancitano et al. [39]
	C	**537**	**n.a.**	**0.007**	**3.0302**	**0.93**	**n.a.**	**South of Sicily**	**s**	**Cannizzaro et al. [49]**
	C	**n.a.**	**n.a.**	**0.004**	**3.13**	**n.a.**	**n.a.**	**Tunisia**	**s**	**Cherif et al. [48]**
Micromesistius poutassou	C	175	10.0–32.5	0.0058	3.0934	0.98	A+	South of Sicily	s	Present study
	C	178	10.7–38.5	0.0029	3.3001	0.98	n.a.	South of Sicily	s	Cannizzaro et al. [49]
Mullus barbatus	F	3533	6.0–27.5	0.0127	2.9656	0.97	A−	South of Sicily	s	Present study
	M	3661	8.5–26.0	0.0211	2.7612	0.94	A−	South of Sicily	s	Present study
	F	**72**	**n.a.**	**0.0112**	**2.9818**	**0.96**	**n.a.**	**South of Sicily**	**s**	**Cannizzaro et al. [49]**
	M	**121**	**n.a.**	**0.007**	**3.1495**	**0.95**	**A−**	**South of Sicily**	**s**	**Cannizzaro et al. [49]**
	F	**n.a.**	**n.a.**	**0.0093**	**3.03**	**n.a.**	**n.a.**	**South of Sicily**	**c**	**CNR-IAMC, [55]**
	M	**n.a.**	**n.a.**	**0.0131**	**2.92**	**n.a.**	**n.a.**	**South of Sicily**	**c**	**CNR-IAMC, [55]**
	F	**773**	**9.7–25.1**	**0.0068**	**3.1222**	**0.94**	**A+**	**Gulf of Tunis**	**s**	**Cherif et al. [48]**
	M	**263**	**10.6–21.2**	**0.0055**	**3.2158**	**0.92**	**A+**	**Gulf of Tunis**	**s**	**Cherif et al. [48]**
Mullus surmuletus	C	1528	10.0–30.0	0.0133	2.971	0.97	A−	South of Sicily	s	Present study
	C	n.a.	n.a.	0.0107	3.05	n.a.	n.a.	South of Sicily	c	Gancitano et al. [43]
	C	405	6.7–32.3	0.0093	3.0972	0.97		South of Sicily	s	Cannizzaro et al. [49]
Pagellus acarne	C	1250	6.0–28.5	0.0097	3.1093	0.98	A+	South of Sicily	s	Present study
	C	312	16.5–25.5	0.003	3.5207	0.98	A+	off Tunisian coast	c	Di Maio et al. [27]

	C	289	11.7–26.9	0.0063	3.2572	0.96	n.a.	South of Sicily	s	Cannizzaro et al. [49]
Pagellus bogaraveo	C	788	6.5–33.0	0.0103	3.0573	0.98	A+	South of Sicily	s	Present study
	C	**164**	**5.5–23.6**	**0.0156**	**2.9405**	**0.97**	**n.a.**	**South of Sicily**	**s**	**Cannizzaro et al. [49]**
Pagellus erytrhinus	C	129	14.1–23.2	0.0109	3.03	0.9	n.a.	Gulf of Gabes	**c***	Ghailen et al. [24]
	C	847	9.0–44.0	0.0193	2.8794	0.98	A−	South of Sicily	s	Present study
	C	330	n.a.	0.0148	2.9449	0.99	n.a.	South of Sicily	s	Cannizzaro et al. [49]
Phycis blennoides	F	1889	9.5–52.5	0.0048	3.1335	0.99	A+	South of Sicily	s	Present study
	M	1489	10.5–44.5	0.0044	3.1634	0.99	A+	South of Sicily	s	Present study
	F	**n.a.**	**5.0–54.0**	**0.0044**	**2.78-2.85**	**n.a.**	**n.a.**	**South of Sicily**	**s**	**Ragonese et al. [40]**
	M	**n.a.**	**5.0–54.0**	**0.0035**	**2.81-2.91**	**n.a.**	**n.a.**	**South of Sicily**	**s**	**Ragonese et al. [40]**
Sardina pilcharus	C	2783	8.5–18.0	0.0032	3.306	0.87	A+	South of Sicily	s	Present study
	C	n.a.	n.a.	0.0077	3	n.a.	n.a.	South of Sicily	c	Gancitano et al. [53]
Sardinella aurita	C	136	9.5–17.0	0.0065	3.0251	0.92	I	South of Sicily	s	Present study
	C	328	7.8–24.0	0.0074	3.009	0.96	n.a.	Gulf of Gabes	**c***	Ghailen et al. [24]
Spicara smaris	C	170	5.5–19.0	0.0159	2.7723	0.91	I	South of Sicily	s	Present study
	C	**49**	**12.5–16.6**	**0.0305**	**2.599**	**0.92**	**A−**	**Gulf of Tunis**	c*	**Miled-Fathalli et al. [26]**
	C	99	8.4–20.1	0.0038	3.3299	0.95	n.a.	South of Sicily	s	Cannizzaro et al. [49]
Trachurus mediterraneus	F	649	10.5–26.5	0.0162	2.7467	0.95	A−	South of Sicily	s	Present study
	M	464	11.0–28.0	0.0129	2.8333	0.94	A−	South of Sicily	s	Present study
	F	n.a.	n.a.	0.0054	3.13	n.a.	n.a.	South of Sicily	c	Gancitano et al. [43]
	M	n.a.	n.a.	0.0052	3.14	n.a.	n.a.	South of Sicily	c	Gancitano et al. [43]
	F	**123**	**14.0–29.3**	**0.0086**	**2.933**	**0.93**	**n.a.**	**Gulf of Gabes**	**c***	**Ghailen et al. [24]**
	M	89	14.2–30.4	0.0131	2.807	0.93	n.a.	Gulf of Gabes	**c***	Ghailen et al. [24]
Trachurus trachurus	C	5175	8.5–45.0	0.0076	3.0382	0.98	A+	South of Sicily	s	Present study
	C	n.a.	n.a.	0.0053	3.14	n.a.	n.a.	South of Sicily	c	Gancitano et al. [43]
Zeus faber	F	372	9.0–58.0	0.0177	2.9366	0.99	A−	South of Sicily	s	Present study
	M	289	10.0–49.0	0.0232	2.8434	0.99	A−	South of Sicily	s	Present study
	C	163	7.2–26.4	0.0287	2.91	0.99	I	Tunisia	s	Rimel et al. [50]
Cartilaginous fishes										
Galeus. melastomus	F	3868	9.0–55.0	0.0032	2.9835	0.99	A−	South of Sicily	s	Present study
	M	4059	9.0–51.0	0.0041	2.9095	0.99	A−	South of Sicily	s	Present study
	F	3879	7.5–59.5	0.0027	3.02	n.a.	I	South of Sicily	s	Ragonese et al. [56]

	M	**4245**	**9.5–51.5**	**0.0041**	**2.95**	**n.a.**	**I**	**South of Sicily**	**s**	**Ragonese et al. [56]**
Mustelus mustelus	F	87	29.5–126.0	0.0028	3.0153	0.99	I	South of Sicily	s	Present study
	M	121	27.5–135.0	0.0026	3.0291	0.99	I	South of Sicily	s	Present study
	F	640	34.5–165.0	0.004	2.896	0.99	n.a.	Gulf of Gabes	c	Marouani et al, [57]
	M	**534**	**34.0–144.5**	**0.007**	**3.036**	**0.99**	**n.a.**	**Gulf of Gabes**	**c**	**Marouani et al, [57]**
Mustelus punctulatus	C	42	45.5–98.0	0.0069	2.7969	0.63	A−	South of Sicily	s	Present study
	F	316	25.0–122.0	0.0011	3.2557	n.a.	n.a.	Gulf of Gabes	c*	Saidi et al. [58]
	M	349	24.5–111.0	0.004	2.9325	n.a.	n.a.	Gulf of Gabes	c*	Saidi et al. [589]
Scyliorhinus canicula	F	1537	10.5–48.0	0.0014	3.2472	0.99	A+	South of Sicily	s	Present study
	M	1774	10.0–51.5	0.0019	3.1375	0.99	A+	South of Sicily	s	Present study
	F	**n.a.**	**n.a.**	**0.0028**	**3.07**	**n.a.**	**n.a.**	**South of Sicily**	**c**	**Gancitano et al. [43]**
	M	**n.a.**	**n.a.**	**0.0054**	**2.87**	**n.a.**	**n.a.**	**South of Sicily**	**c**	**Gancitano et al. [43]**
Squalus blainville	F	1282	17.5–75.0	0.0034	3.0816	0.99	A+	South of Sicily	s	Present study
	M	970	16.5–77.0	0.0048	2.9834	0.99	A−	South of Sicily	s	Present study
	C	85	25.0–68.0	0.007	3.25	0.83	n.a.	South of Sicily	c-s	Malagola, [59]

* studies which combine data from trawling and passive gears. § http://tesi.cab.unipd.it/53621/1/Malagola_Silvia.pdf.