

Supplementary Materials

Table S1. Records of *Tremoctopus violaceus* in the Adriatic Sea. (ND – no data; DML – dorsal mantle length; BW – body weight).

Author	Location	Year of finding	Month of finding	State of the animal	Number of specimens	DML and BW
Nardo, 1847	Northern Adriatic Sea, Venezia	1847	ND	dead	1	ND
Kolombatović, 1888	Central Eastern Adriatic Sea, Split, Vis, Hvar	1888	August	dead	3	ND
Kolombatović, 1905	Central Adriatic Sea, Split	1904	July	dead (caught by fishermen)	5	DML = 90 mm
Kramer, 1937	Northern Adriatic Sea, Rovinj	1936	ND	dead (caught by fishermen)	3	ND
Bello, 1993	Southern Adriatic Sea	1991	September	recovered beaks from the stomach of large predator	1	estimated DML = 90 mm
Agus et al., 2022	Southern Adriatic Sea, Apuglia	2017	June	stranded	1	DML = 76.6 mm; BW = 106 g
Glavić et al., 2003	Central Eastern Adriatic, Lopud	2000	April	stranded	1	DML = 33 mm; BW = 19.32 g
This study	Central Eastern Adriatic, Hvar	2019	July	dead (caught by fishermen)	4	ID1.: DML = 113 mm; BW = 257.68 g ID2.: DML = 82 mm; BW = 93.94 g ID3.: DML = 80 mm; BW = 81.55 g ID4.: DML = 78 mm; BW = 74.72 g

Table S2. List of GenBank Accession Numbers of *Tremoctopus* genus sequences used in this study.

Species	COI GenBank Acc. No.	16S GenBank Acc. No.	Locality	Reference
<i>Tremoctopus violaceus</i>	OQ561768 - OQ561771	OQ561743 - OQ561746	Central Eastern Adriatic Sea	This study
<i>Tremoctopus violaceus</i>	MW025168	/	Pacific	Oh et al., unpublished
<i>Tremoctopus violaceus</i>	AF377978	/	Florida, Atlantic	Carlini et al., 2001
<i>Tremoctopus violaceus</i>	/	KY649286	Taiwan, Pacific	Shen, unpublished
<i>Tremoctopus violaceus</i>	/	MZ043857	Pacific	Oh et al., unpublished
<i>Tremoctopus violaceus</i>	MN443917	MN435565	Pacific	Kim unpublisch
<i>Tremoctopus violaceus</i>	OM025233	OM025094	Southern Adriatic Sea	Agus et al., 2021
<i>Tremoctopus violaceus</i>	/	OM025092 - OM025093	Mediterranean Sea	Agus et al., 2021
<i>Tremoctopus violaceus</i>	MW351786 - MW351787	/	Mexico, Atlantic	Santana-Cisneros et al., unpublished
<i>Tremoctopus violaceus</i>	/	MT271737	Mexico, Atlantic	Jiménez-Badillo et al., 2021
<i>Tremoctopus violaceus</i>	/	AJ252767	Hawaii, Pacific	Hudelot, unpublished
<i>Tremoctopus gracilis</i>	MH379648	/	India	Geetha et al., unpublished
<i>Tremoctopus gracilis</i>	MN370032 - MN370034	/	India	Sajikumar et al., unpublished
<i>Tremoctopus robsoni</i>	MK186001	/	New Zealand, Pacific	Braid & Bolstad, 2019
<i>Tremoctopus</i> sp.	MN560197	/	Chile, Pacific	Carrasco et al., 2020
<i>Octopus vulgaris</i>	HQ908426	/	Mediterranean Sea	Keskin & Atar, 2011
<i>Octopus vulgaris</i>	/	AJ252778	Mediterranean Sea	Hudelot, unpublished

Table S3. Pairwise K2P genetic distances between 16S sequences of the genus *Tremoctopus*.

The number of base substitutions per site from between sequences are shown. Standard error estimates (blue) are shown above the diagonal. This analysis involved 12 nucleotide sequences. Codon positions included were 1st+2nd+3rd+Noncoding. All ambiguous positions were removed for each sequence pair (pairwise deletion option). (ADR – Adriatic Sea, MED – Mediterranean Sea, ATL – Atlantic Ocean, PAC – Pacific Ocean).

[illegible]

Table S4. Pairwise K2P genetic distances between COI sequences of the genus *Tremoctopus*.

The number of base substitutions per site from between sequences are shown. Standard error estimates (blue) are shown above the diagonal. This analysis involved 16 nucleotide sequences. Codon positions included were 1st+2nd+3rd+Noncoding. All ambiguous positions were removed for each sequence pair (pairwise deletion option). (ADR – Adriatic Sea, MED – Mediterranean Sea, ATL – Atlantic Ocean, PAC – Pacific Ocean, IND – Indian Ocean).

	COI GenBank Acc. No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Locality
1	<i>T. violaceus</i> AF377978		0.0133	0.0134	0.0133	0.0135	0.0029	0.0172	0.0024	0.0034	0.0030	0.0024	0.0172	0.0029	0.0131	0.0131	0.0134	ATL
2	<i>T. violaceus</i> OQ561768	0.0941		0.0023	0.0023	0.0016	0.0131	0.0176	0.0130	0.0133	0.0132	0.0130	0.0176	0.0131	0.0029	0.0029	0.0000	ADR
3	<i>T. violaceus</i> OQ561769	0.0941	0.0032		0.0023	0.0016	0.0131	0.0174	0.0130	0.0134	0.0132	0.0130	0.0174	0.0132	0.0017	0.0017	0.0025	ADR
4	<i>T. violaceus</i> OQ561770	0.0941	0.0032	0.0032		0.0016	0.0131	0.0180	0.0129	0.0133	0.0132	0.0129	0.0180	0.0131	0.0029	0.0029	0.0025	ADR
5	<i>T. violaceus</i> OQ561771	0.0960	0.0016	0.0016	0.0016		0.0133	0.0176	0.0131	0.0135	0.0134	0.0131	0.0176	0.0133	0.0024	0.0024	0.0018	ADR
6	<i>T. gracilis</i> MH379648	0.0048	0.0922	0.0922	0.0922	0.0941		0.0167	0.0016	0.0017	0.0023	0.0016	0.0167	0.0023	0.0128	0.0128	0.0131	IND
7	<i>T. robsoni</i> MK186001	0.1513	0.1553	0.1553	0.1595	0.1574	0.1451		0.0169	0.0170	0.0171	0.0169	0.0000	0.0171	0.0170	0.0170	0.0181	PAC
8	<i>T. gracilis</i> MN370032	0.0032	0.0903	0.0903	0.0903	0.0922	0.0016	0.1471		0.0023	0.0017	0.0000	0.0169	0.0016	0.0127	0.0127	0.0129	IND
9	<i>T. gracilis</i> MN370033	0.0065	0.0941	0.0941	0.0941	0.0960	0.0016	0.1471	0.0032		0.0016	0.0023	0.0170	0.0029	0.0131	0.0131	0.0134	IND
10	<i>T. gracilis</i> MN370034	0.0048	0.0922	0.0922	0.0922	0.0941	0.0032	0.1492	0.0016	0.0016		0.0017	0.0171	0.0024	0.0130	0.0130	0.0132	IND
11	<i>T. violaceus</i> MN443917	0.0032	0.0903	0.0903	0.0903	0.0922	0.0016	0.1471	0.0000	0.0032	0.0016		0.0169	0.0016	0.0127	0.0127	0.0129	PAC
12	<i>T. sp.</i> MN560197	0.1513	0.1553	0.1553	0.1595	0.1574	0.1451	0.0000	0.1471	0.1471	0.1492	0.1471		0.0171	0.0170	0.0170	0.0181	PAC
13	<i>T. violaceus</i> MW025168	0.0048	0.0922	0.0922	0.0922	0.0941	0.0032	0.1492	0.0016	0.0048	0.0032	0.0016	0.1492		0.0128	0.0128	0.0132	PAC
14	<i>T. violaceus</i> MW351786	0.0913	0.0049	0.0016	0.0049	0.0033	0.0894	0.1471	0.0875	0.0913	0.0894	0.0875	0.1471	0.0894		0.0000	0.0032	ATL
15	<i>T. violaceus</i>	0.0913	0.0049	0.0016	0.0049	0.0033	0.0894	0.1471	0.0875	0.0913	0.0894	0.0875	0.1471	0.0894	0.0000		0.0032	ATL

16	MW351787																
	<i>T. violaceus</i>																
	OM025233	0.0890	0.0000	0.0036	0.0036	0.0018	0.0868	0.1459	0.0847	0.0890	0.0868	0.0847	0.1459	0.0868	0.0055	0.0055	ADR
