

Using stable carbon isotopes to quantify radiocarbon reservoir age offsets in the coastal Black Sea

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Table S1: Coastal Black Sea ¹⁴C data and reservoir age offsets

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Area	Core/Name	Latitude	Longitude	Elevation	Year ^a	Depth in core	Material	Lab #	Shell δ ¹³ C	Shell (ρ _{shell})	Material	Lab #	Atmospheric (ρ _{atm})	R _{shell-atm}	δ ¹⁴ R _{shell-atm}	Calibrated range (95%) ^c
				(m)	(AD)	(cm)			(‰ VPDB)	(¹⁴ C yr BP)			(¹⁴ C yr BP)	(¹⁴ C yrs)	(‰)	(cal yr BP)
Crimean coast	S&G94	44°40'00" N	33°30'00" E	0 to -5	1931	–	<i>Mytilus galloprovincialis</i> ^b	OS-718	0.72	490 ± 34	–	–	152 ± 7	338 ± 35	-41.2 ± 4.2	19 ^d
Danube delta	NE-1	45°15'20" N	28°59'29" E	1	2005	350-351	<i>Dreissena polymorpha</i>	OS-117856	-6.44	4904 ± 19	Fragments of twigs	OS-117857	4126 ± 19	778 ± 27	-92.3 ± 3.0	[4537–4813]
Bulgarian coast	SOZ-7 ter(1)	42°21'55" N	27°42'30" E	1	2012	580-583	<i>Mytilus galloprovincialis</i>	Lyon-10874	-0.98	5138 ± 34	Charcoal	Lyon-10873	4524 ± 27	614 ± 43	-73.6 ± 5.0	[5053–5304]
Bulgarian coast	SOZ-7 ter(2)	42°21'55" N	27°42'30" E	1	2012	558-560	<i>Mytilus galloprovincialis</i>	Lyon-10872	-0.73	5056 ± 27	Charcoal	Lyon-10871	4475 ± 28	581 ± 39	-69.8 ± 4.6	[4978–5286]
Danube delta	MD04-2774	44°57'27" N	29°50'07" E	-30	2004	481-482	<i>Monodacna caspia</i>	OS-108017	-3.04	8940 ± 108	<i>Phragmites</i> reed	OS-107988	8258 ± 49	682 ± 119	-81.4 ± 13.7	[9040–9417]
Danube delta	SG	44°54'14" N	29°35'15" E	0.5	2007	4550-4551	<i>Dreissena sp.</i>	OS-77369	-7.92	10600 ± 60	Fragile foliar material from a peat layer	OS-65848	9500 ± 55	1100 ± 81	-128.0 ± 8.9	[10588–11081]

a Year of the collection of the material (the cores or the alive shell reported in Jones and Gagnon (1994))

b Pre-bomb shell collected alive in 1931 (Jones and Gagnon, 1994). The atmospheric age is inferred from Intcal13 (Reimer et al., 2013) using ResAge software (Soulet, 2015; Soulet et al., 2016).

c Calibrated using IntCal13 (Reimer et, 2013)

d Year AD 1931 is the year 19 calBP