Rennwdt

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TABLE DR1. $^{87}Sr/^{86}Sr$ RESULTS

Sample / Taxa	Group*	Taphonomy†	$^{87}Sr/^{86}Sr$§	Salinity (ppt)#
MZ6				
Corbicula (C.) fluminalis	B/FW	EC - A	0.707509	0.9 - 0.9
MZ8				
Cerastoderma glaucum	B/L	EC - A	0.708845	7.0 - 7.8
Corbicula (C.) fluminalis	B/FW	EC - A	0.707598	1.0 - 1.1
Porewater	N.A.**	EC - A	0.707841	1.4 - 1.4
MZ15				
Abra ovata	B/L	EC - A	0.708691	4.9 - 5.3
Ammonia beccarri "tepida"	F/L	EC	0.708875	7.6 - 8.5
Balanus sp. 1	C	EC - A	0.707992	1.6 - 1.7
Bryozoan	BR	MC	0.708447	3.1 - 3.3
Cerastoderma glaucum 1	B/L	MC	0.708640	4.4 - 4.8
Cerastoderma glaucum 2	B/L	MC	0.708611	4.2 - 4.5
Cerastoderma glaucum 3	B/L	MC	0.708502	3.4 - 3.7
Corbicula (C.) fluminalis 1	B/FW	EC - A	0.707669	1.1 - 1.2
Corbicula (C.) fluminalis 2	B/FW	EC - A	0.707664	1.1 - 1.1
Corbicula (C.) fluminalis 3	B/FW	EC - A	0.707699	1.1 - 1.2
Gabbiella c.f. senaariensis	G/FW	EC	0.707637	1.1 - 1.1
Hydrobia stagnorum	G/L	MC	0.708264	2.4 - 2.5
Loxoconcha sp.	O/L	EC - A	0.707924	1.5 - 1.6
Melanoides tuberculata 1	G/FW/L	EC	0.708024	1.7 - 1.8
Melanoides tuberculata 2a	G/FW/L	EC	0.707582	1.0 - 1.0
Melanoides tuberculata 2b	G/FW/L	EC	0.707576	1.0 - 1.0
Melanoides tuberculata 2c	G/FW/L	EC	0.707585	1.0 - 1.0
Melanoides tuberculata 2d	G/FW/L	EC	0.707577	1.0 - 1.0
Porewater	N.A.	N.A.	0.708055	1.8 - 1.9
Mercierella enigmata	S	EC	0.707636	1.1 - 1.1
Theodoxus (N.) niloticus	G/FW	EC	0.707572	1.0 - 1.0
MZ16				
Cerastoderma glaucum	B/L	MC	0.708514	3.5 - 3.7
Corbicula (C.) fluminalis	B/FW	EC - A	0.707730	1.2 - 1.2
MZ22				
Cerastoderma glaucum	B/L	MC - A	0.708587	4.0 - 4.3
Melanoides tuberculata	G/FW/L	EC	0.707589	1.0 - 1.0
Planorbis planorbis	G/FW	EC	0.707575	1.0 - 1.0
Valvata nilotica nilotica	G/FW	EC	0.707539	0.9 - 1.0
MZ29				
Cerastoderma glaucum	B/L	MC - A	0.709034	13.3 - 16.1
Gypsum crystals	N.A.	CC	0.708210	2.2 - 2.3
Melanoides tuberculata	G/FW/L	MC	0.707785	1.3 - 1.3
MZ35				
Bittium reticulatum	G/MW	PC	0.708732	5.3 - 5.8
Cerastoderma glaucum	B/L	MC	0.708703	5.0 - 5.4
Corbicula (C.) fluminalis	B/FW	EC - A	0.707731	1.2 - 1.2
MZ37				
Abra ovata	B/L	EC - A	0.708938	9.2 - 10.6
Cerastoderma glaucum	B/L	MC	0.708713	5.1 - 5.6
Melanoides tuberculata	G/FW/L	EC	0.707652	1.1 - 1.1
MZ47				
Corbicula (C.) fluminalis	B/FW	EC - A	0.707556	1.0 - 1.0
Melanoides tuberculata	G/FW/L	MC	0.707560	1.0 - 1.0
MZ51				
Cerastoderma glaucum	B/L	MC	0.708867	7.4 - 8.3
Corbicula (C.) fluminalis	B/FW	EC - A	0.707705	1.1 - 1.2
MZ54				
Cerastoderma glaucum	B/L	MC	0.708818	6.5 - 7.2
Corbicula (C.) fluminalis	B/FW	EC	0.707671	1.1 - 1.2
Porewater	N.A.	N.A.	0.708485	3.3 - 3.6
MZ57				
Cerastoderma glaucum	B/L	MC	0.709034	13.3 - 16.1
MZ62				
Balanus sp. 2	C	EC	0.708274	2.4 - 2.5
Cerastoderma glaucum	B/L	EC - A	0.708710	5.1 - 5.5
Melanoides tuberculata	G/FW/L	EC	0.707655	1.1 - 1.1
MZ63				
Abra ovata	B/L	EC - A	0.708487	3.3 - 3.6
Cerastoderma glaucum	B/L	MC - A	0.708478	3.3 - 3.5

TABLE DR 1. CONT'D

Sample / Taxa	Group	Taphonomy	$^{87}Sr/^{86}Sr$	Salinity (ppt)
MZ65				
Cerastoderma glaucum	B/L	PC	0.708696	4.9 - 5.4
Corbicula (C.) fluminalis	B/FW	EC - A	0.707713	1.2 - 1.2
MZ67				
Cerastoderma glaucum	B/L	MC	0.708501	3.4 - 3.7
Corbicula (C.) fluminalis	B/FW	EC	0.707763	1.2 - 1.3
MZ74				
Abra ovata	B/L	EC - A	0.708408	2.9 - 3.1
Cerastoderma glaucum	B/L	MC	0.708997	11.4 - 13.4
MZ79				
Abra ovata	B/L	EC - A	0.708970	10.3 - 12.0
Ammonia beccarri "tepida"	F/L	EC	0.709077	16.3 - 20.7
Balanus sp. 1	C	EC	0.708596	4.0 - 4.4
Balanus sp. 2	C	EC	0.707946	1.5 - 1.6
Bittium reticulatum	G/MR	MC	0.708968	10.2 - 11.9
Bittium sp.	G	MC	0.708979	10.6 - 12.4
Cerastoderma glaucum	B/L	MC	0.708380	2.9 - 3.0
Gypsum crystals	N.A.	CC	0.708885	7.8 - 8.8
Hydrobia stagnorum	G/L	MC	0.708371	2.8 - 2.9
Melanoides tuberculata	G/FW/L	EC	0.708135	2.0 - 2.1
Ostrea edulis	B/MW	EC	0.709086	17.2 - 22.0
Porewater	N.A.	N.A.	0.708828	6.7 - 7.4
Mercierella enigmata	S	EC	0.707907	1.5 - 1.5
MZ83				
Abra ovata	B/L	EC - A	0.709023	12.6 - 15.2
Gypsum crystals	N.A.	CC	0.000000	9.4 - 10.8
MZ84				
Donax sp.	B/MW	EC	0.709016	12.3 - 14.7
Mactra (M.) corallina	B/MW	EC	0.709125	21.9 - 40
Porewater	N.A.	N.A.	0.708939	9.2 - 10.6
MZ88				
Shell fragment	B	PC	0.709173	24 - 40
Turbonilla sp.	G/MW	PC	0.709147	24 - 40
MZ91				
Gypsum crystals	N.A.	CC	0.708591	4.0 - 4.3
Porewater	N.A.	N.A.	0.708537	3.6 - 3.9

* Taxonomic group: B- bivalve, BR- bryozoan, C- crustacean (barnacle), F- foraminifera, G- gastropod, O- ostracod, S- serpulid worm tube. Environmental Setting (from Bernasconi and Stanley, 1994): FW- fresh water, MW- marine water, L- lagoonal/euryhaline.

† Taphonomic description: EC- excellent condition, shell unfragmented, encrusted, bored or dissolved, color preserved; MC- moderate condition, shell slightly fragmented, encrusted, bored, or dissolved, color partially preserved; PC - Poor condition - fragmentation, encrustation, boring, or dissolution - color not preserved; A - articulated shell; CC- clear crystals.

§ Error at $2\sigma \pm 2 \times 10^{-5}$.

\# Salinity range at 2σ.

**N.A. = not applicable.