

**Circulation changes in eastern Mediterranean Sea over the past 23,000 years inferred
from authigenic Nd isotopic ratios**

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Additional Supporting Information (Files uploaded separately)

Captions for Table S1

Introduction

PAAS-normalized REE patterns of authigenic (foraminifera, leachates) and residual fraction of cores MD04-2722 and MD04-2797CQ as well as raw ϵ Nd data are presented in supporting information.

Figure S1. PAAS-normalized REE patterns of authigenic (foraminifera: circle, leachate: open square) fraction from cores MD04-2722 (red) and MD04-2797CQ (green). Some REEs are not shown because of low concentration (Tb, Ho, Tm and Lu) or heavy isobaric interferences (ex. BaO on Eu).

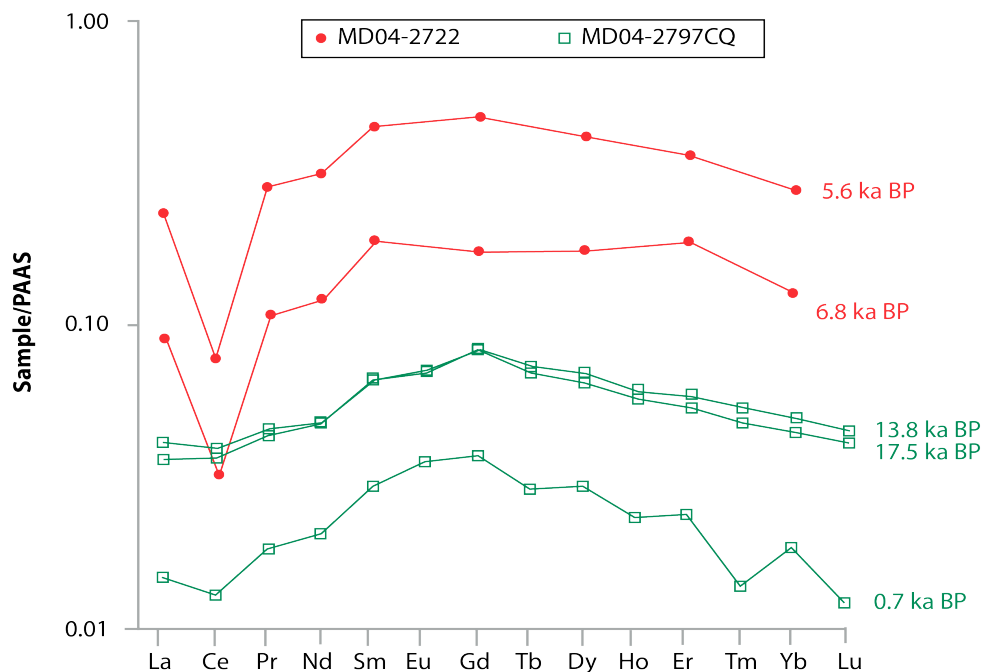


Figure S2. PAAS-normalized REE patterns of residual fraction from core MD04-2797CQ (green cross symbols). Residual fraction was not weighed and REE dilution by CaCO_3 was corrected using leachate results.

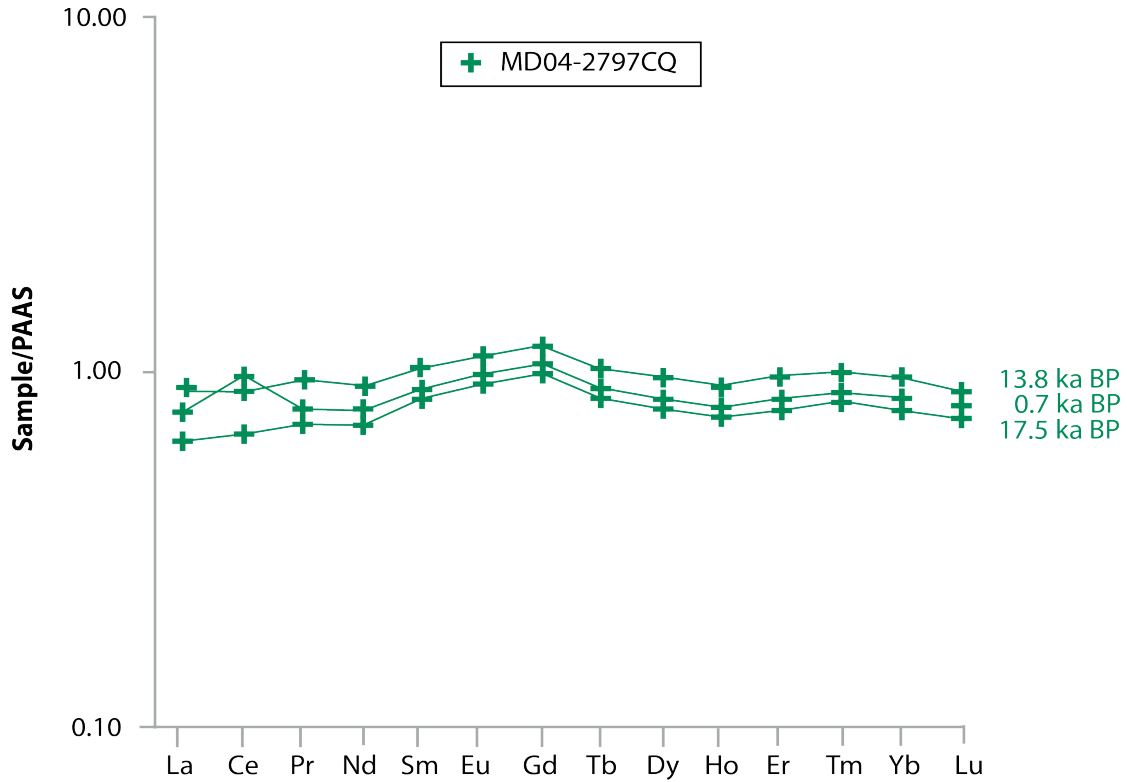


Table S1. Raw data of $\epsilon_{Nd\ auth}$ measured on foraminifera and bulk sediment leachates from core MD04-2797CQ. Replicates are indicated by a/b.

Table S2. Raw data of authigenic ϵ_{Nd} measured on foraminifera and bulk sediment leachates from core MD04-2722. Replicates are indicated by a/b.

Depth (cm)	Age (ka BP)	Authigenic fraction			
		Foraminifera		Leachate	
		ϵ_{Nd}	2σ	ϵ_{Nd}	2σ
0	3.6	-4.4	0.2	-4.1	0.3
6	3.9	-3.8	0.3	-	-
12	4.2	-4.2	0.4	-	-
18	4.5	-4.1	0.3	-	-
28a	5.0	-3.9	0.2	-	-
28b	5.0	-3.5	0.3	-	-
38	5.6	-3.8	0.3	-	-
46a	6.1	-3.7	0.2	-	-
46b	6.1	-3.8	0.3	-	-
56	6.8	-4.7	0.3	-	-
62	7.2	-3.9	0.3	-	-
72	7.6	-3.7	0.4	-	-

82	8.1	-3.8	0.2	-	-
92	8.6	-3.6	0.3	-	-
102	9.1	-3.9	0.3	-	-
110	9.5	-4.0	0.3	-	-
120	10.4	-3.7	0.3	-	-
130	11.4	-3.7	0.3	-	-
140	12.4	-3.5	0.3	-	-
146	13.0	-3.7	0.3	-	-
152a	13.6	-3.9	0.2	-	-
152b	13.6	-4.4	0.5	-	-
158a	14.2	-3.4	0.3	-	-
158b	14.2	-3.9	0.2	-	-
164a	14.8	-3.4	0.3	-	-
164b	14.8	-4.0	0.2	-	-
168a	15.2	-4.7	0.3	-3.8	0.3
168b	15.2	-4.2	0.4	-	-
172	15.6	-4.6	0.3	-	-
178a	16.2	-3.5	0.3	-3.7	0.3
178b	16.2	-3.5	0.4	-	-
188	17.5	-3.1	0.4	-	-
198a	18.7	-3.2	0.3	-3.2	0.3
198b	18.7	-3.4	0.3	-	-
208a	19.9	-3.2	0.3	-3.5	0.4
208b	19.9	-3.5	0.3	-	-
218	21.1	-3.8	0.4	-	-
228	21.9	-3.5	0.3	-	-
238	22.7	-3.5	0.3	-	-
