

FIGURE CAPTIONS

Figure DR1. Location map of travertine sampling sites at the Arava Valley (modified from Enmar, 1999). Light gray discontinuous lines mark the different travertine fields. Light gray dots stand for selected sampling locations. Numbers mark the specific location of the travertine sampling as marked in table 1 and figure 2.

Figure DR2. A composite stratigraphic section crossing S-N the Arava Valley (modified from Enmar, 1999).

Table DR1. U/Th, α -counting ages of the Arava travertines. 1) The Arava Valley travertine sites 2) Location in Fig. 1. 3) Corresponding travertine terrace (see composite stratigraphic section in Figure 2) 4) Main travertine U/Th ages groups (in ka): 63, 84, 105, 121, 174, 196, 224 and 240. These ages are comparable with the timing of sapropel events in the Eastern Mediterranean (Rossignol-Strick and Paterne, 1999), such as the S3 (~83 cal ky BP), S4 (~105 cal ky BP), S5 (~127 cal ky BP), S7 (~190 cal ky BP), S8 (~220 cal ky BP) and S9 (240 cal ky BP). References: (a) Enmar (1999), (b) Livnat and Kronfeld (1985) and (c) Waldmann et al. (2009).

REFERENCES

- Enmar, L., 1999, The travertines in the Northern and Central Arava: stratigraphy, petrology and geochemistry: Geological Survey of Israel Report, v. 1/99.
- Livnat, A., and Kronfeld, J., 1985, Paleoclimatic implications of U-series dates for lake sediments and travertines in the Arava Rift Valley, Israel: Quaternary Research, v. 24, p. 164-172.
- Rossignol-Strick, M., and Paterne, M., 1999, A synthetic pollen record of the eastern Mediterranean sapropels of the last 1 Ma: implications for the time-scale and formation of sapropels: Marine Geology, v. 153, p. 221-237.

Waldmann, N., Stein, M., Ariztegui, D., and Starinsky, A., 2009, Stratigraphy, depositional environments and level reconstruction of the last interglacial Lake Samra in the Dead Sea basin: Quaternary Research, v. 72, p. 1-15.

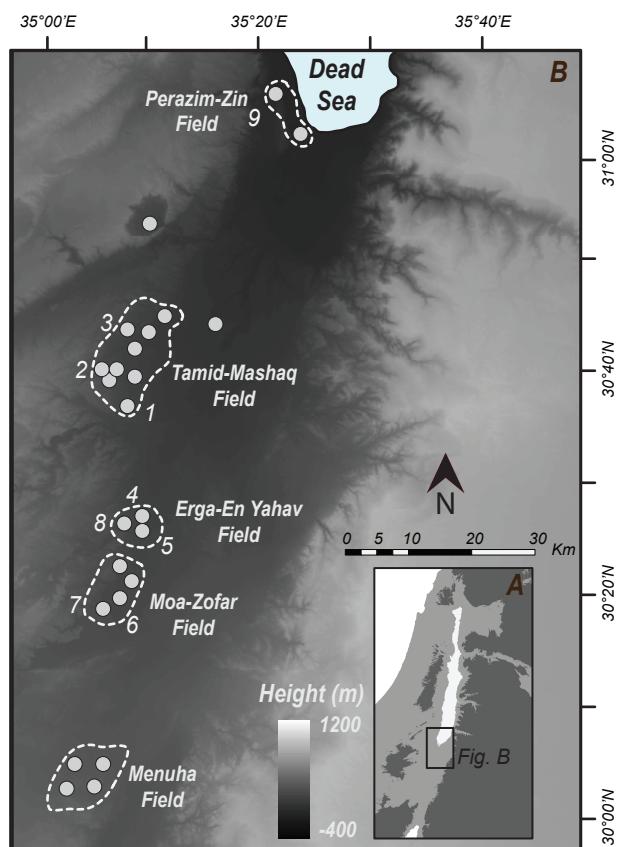


Figure DR1 (supplemental material): Waldmann et al.

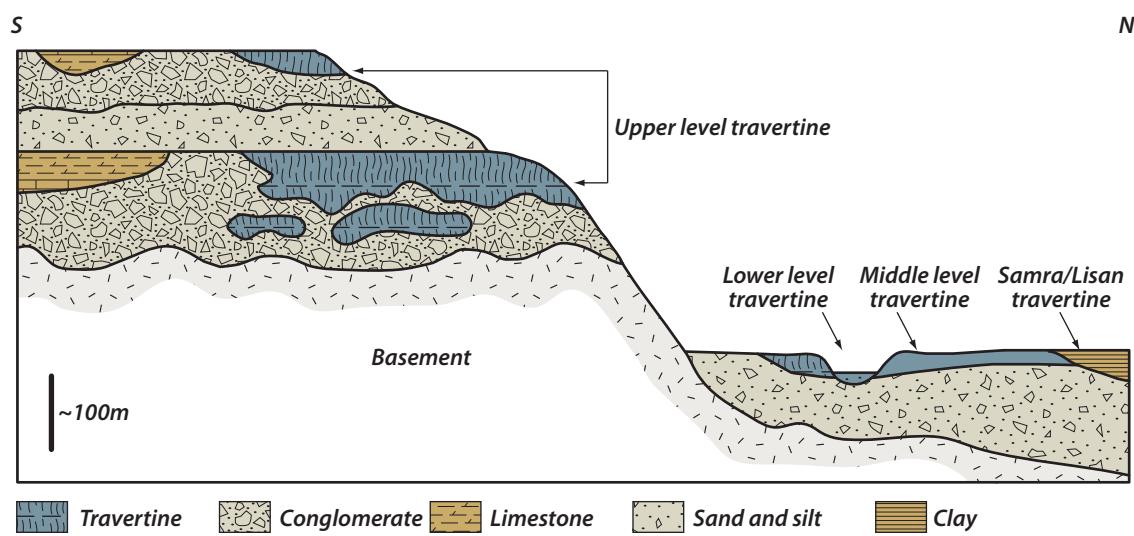


Figure DR2 (supplemental material): Waldmann et al.

Table DR1. U/Th, α -counting ages of the Arava travertines.

Site⁽¹⁾	Location⁽²⁾	Terrace⁽³⁾	Number of ages	Range of ages (ka)	Average (ka)⁽⁴⁾	References
E. Tamid	1	Lower	1	8.40	8.4	a
E. Tamid	1	Upper	1	193.00	193	a
N. Hazeva	1	Upper	4	228-307	261	a
N. Mashak	2	Upper	2	240-247	244	b
N. Omer	3	Upper	1	225	225	b
N. Omer	3	Upper	1	293	293	b
N. Erga	4	Upper	2	228-218	223	b
E. Yahav	5	Upper	4	209-243	224	b
E. Yahav	5	Upper	1	105	105	b
Moa	6	Middle	1	137	137	b
Moa	6	Middle	1	107	107	b
Moa	6	Middle	1	196	196	b
N. Shvia	7	Middle	1	121	121	b
N. Shvia	7	Middle	1	182	182	b
E. Rachel						
East	8	Middle	1	174	174	b
E. Rachel						
East	8	Middle	1	86	86	b
E. Rachel						
East	8	Middle	2	63-66	64	a & b
E. Rachel						
West	8	Middle	2	221-235	228	b
N. Perazim and N. Amatzyahu	9	Samra- Lisan transition	3	82-85	83	c

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