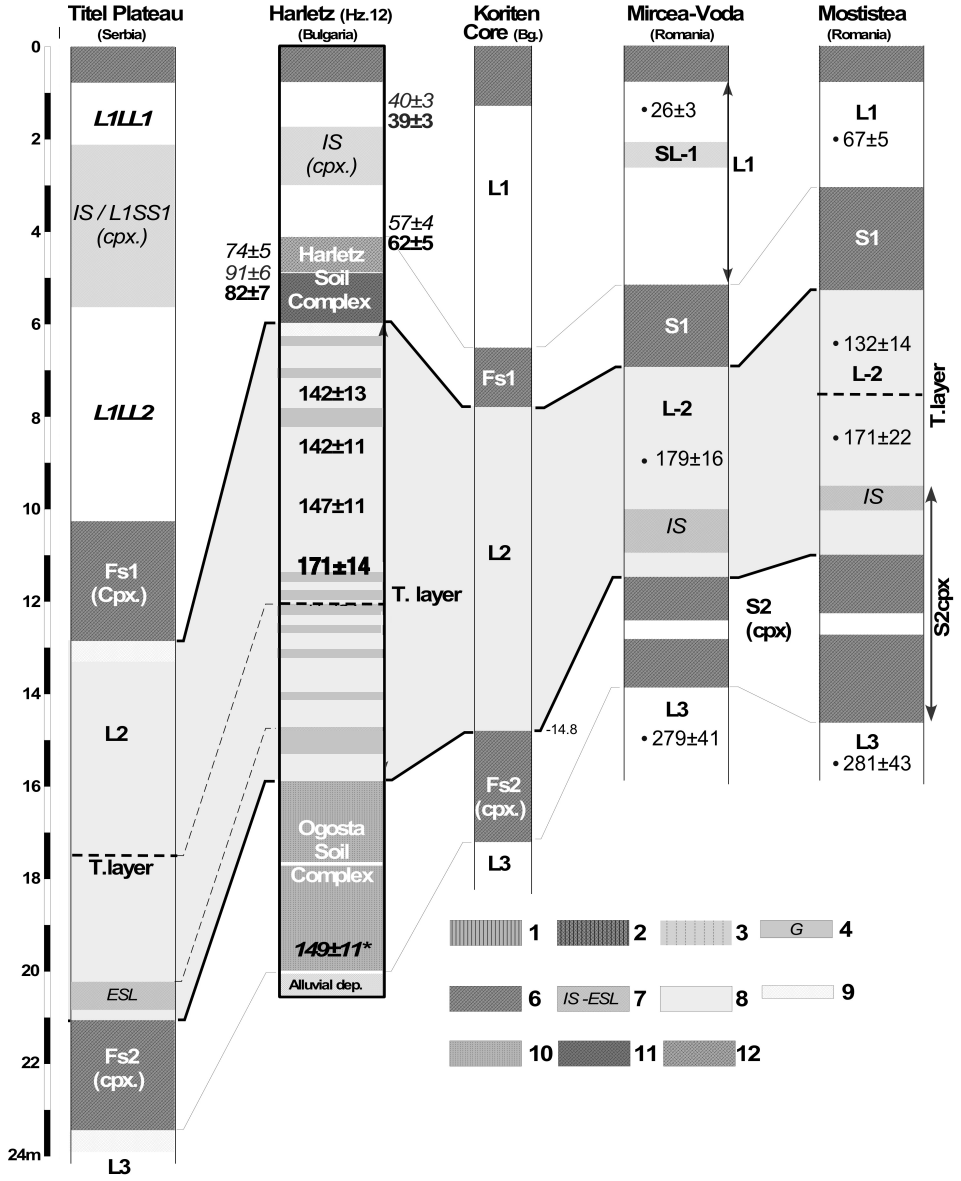
Supplementary material

Suppl. Fig. 1. Sites discussed in the text. On the left, records retrieved from the European loess sequences at about 50°N showing paleosols correlated with DO events during the last climate cycle, Harletz site, Mediterranean terrestrial and marine records, North Atlantic marine records and Greenland NGRIP ice core. On the right, Chinese loess and speleothem records. (map from © Google Earth).

Suppl. Fig. 2. Correlation between the last two climate cycles from southern Europe loess sequences along the Danube after Antoine et al. (2019)modified). ISp and ISm (this study) are reported on Harletz record. Location of the sites on Fig. 1. .

NGRIP
Arctic circle
ODP 984
ODP 983
M23414-9/M23414-6
U1308
Prime meridian
Stayky
St Pierre-lès-Elbeuf
Nussloch
Dolni Vestonice
Harletz
Argentarola Cave
Tenaghi Philippon
Lake Ohrid
Ionnina
MD01-2443
ODP 977A
Soreq
Tropic of Cancer
Image IBCAO
Image Landsat / Copernicus
Image U.S. Geological Survey
Data SIO, NOAA, U.S. Navy, NGA, GEBCO
Google Earth
N45°
Zichang
Xinzhuangyuan
Lijiayuan
Huachi
Hulu Cave
N35°
Sanbao cave
N25°
Tropic of Cancer

Suppl. Fig. 1


Titel Plateau
(Serbia)
Harletz (Hz.12)
(Bulgaria)
Koriten
Core (Bg.)
Mircea-Voda
(Romania)
Mostistea
(Romania)
0
2
4
6
8
10
12
14
16
18
20
22
24m
L1L1.1
IS / L1SS1
(cpx.)
L1L1.2
Fs1
(Cpx.)
L2
T.layer
ESL
Fs2
(cpx.)
L3
40±3
39±3
IS
(cpx.)
57±4
62±5
74±5
91±6
82±7
Harletz
Soil
Complex
142±13
142±11
147±11
171±14
T. layer
Ogosta
Soil
Complex
149±11*
Alluvial dep.
L1
Fs1
L2
-14.8
Fs2
(cpx.)
L3
•26±3
SL-1
L1
S1
L-2
• 179±16
IS
S2
(cpx)
L3
• 279±41
L1
• 67±5
S1
• 132±14
L-2
T.layer
• 171±22
IS
S2cpx
L3
• 281±43
1
2
3
G
4
6
IS -ESL
7
8
9
10
11
12

Suppl. Fig. 2