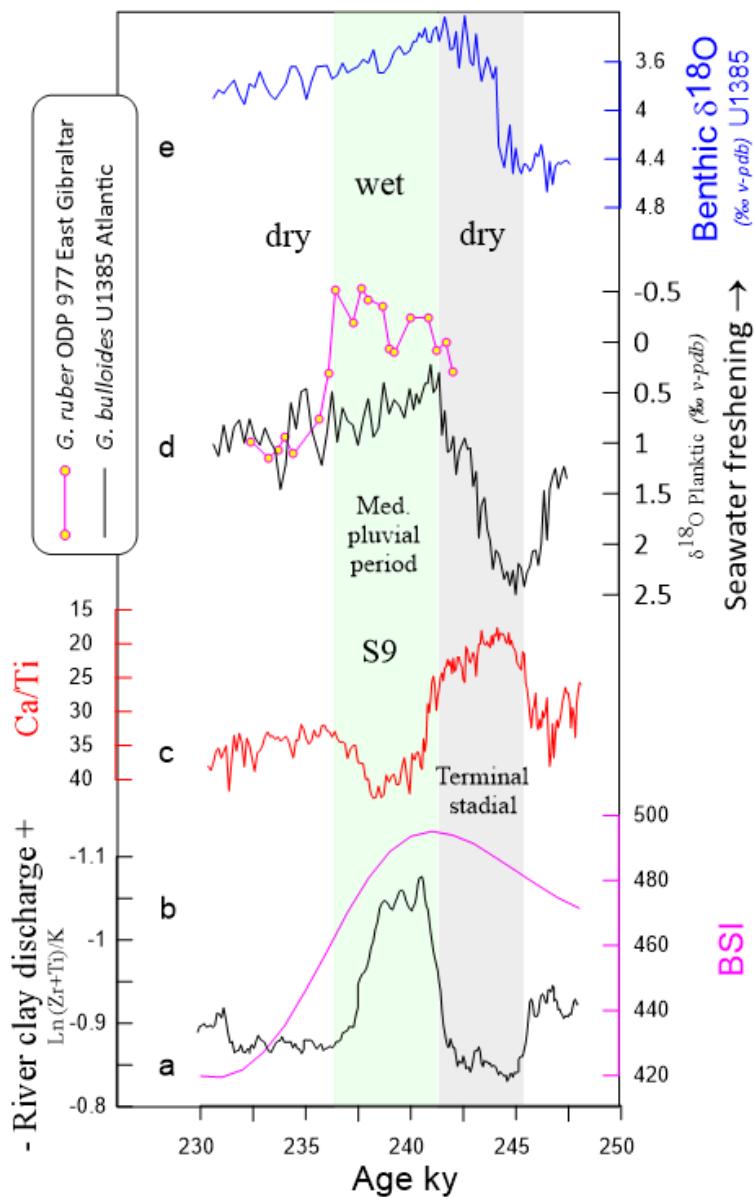


Extended data Figure 5 for  
Atlantic atmospheric rivers and the pulse of deep Mediterranean respiration

## Extended data Figure 5

## Surface water freshening in the westernmost Mediterranean during deposition of S9.

a, BSI at 65°N<sup>14</sup>. b,  $\text{Ln}(\text{Zr+Ti})/\text{K}$  record of river clay discharge at site U1385. c, Ca/Ti record from site U1385. d,

Sea surface water freshening events shown by *G. ruber*  $\delta^{18}\text{O}$  drops. *G. ruber*  $\delta^{18}\text{O}$  record from ODP 977 in the

westernmost Mediterranean (magenta)<sup>40</sup>; *G. bulloides*  $\delta^{18}\text{O}$  from site U1385 (black) (eastern Atlantic)<sup>41</sup>; e, Benthic

12       $\delta^{18}\text{O}$  record from site U1385 (eastern Atlantic)<sup>41</sup>. The gray and green bands show the Terminal stadial event and the  
13      Mediterranean pluvial period, respectively.

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