Supplement

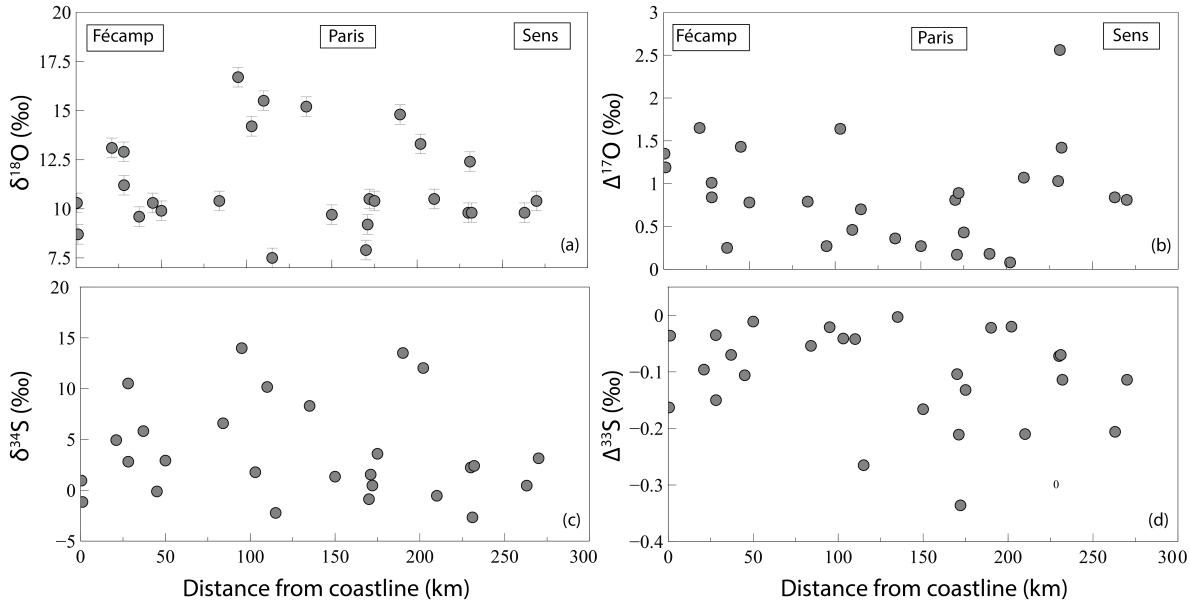

Fig. 1 supplementary Evolution of (**a**) $\delta^{18}O$, (**b**) $\Delta^{17}O$ and (**c**) $\delta^{34}S$ in function of the distance from coastline. No correlation between oxygen and sulfur isotopic compositions and the distance from the coastline are observed.

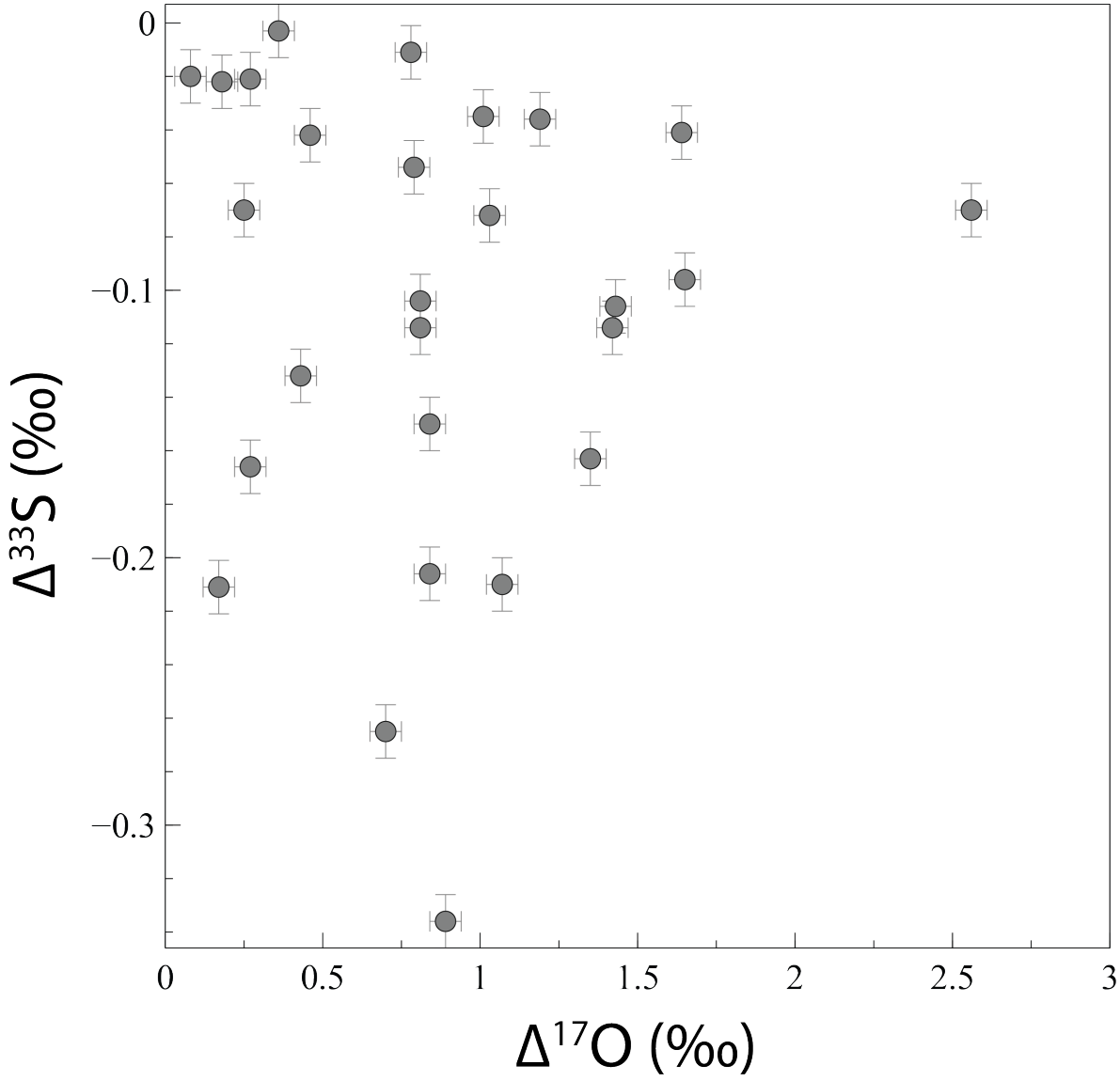

Fig. 2 supplementary Evolution of $\Delta^{33}S$ with $\Delta^{17}O$-values.