

**Supplementary Fig. 2.** Chondrite-normalised REE patterns for the Ediacaran shales (a) and sandstones (b). Open circles: mean patterns. (c) REE patterns of the mean Ediacaran shales (filled squares) and sandstones (open squares) from the Cantabrian Zone, NIBAS (open triangle) and the mean ( $n=16$ ) sandstone (filled triangles) of the Central Iberian Zone. Normalising chondrite values after Pourmand *et al.* 2012. Symbols as in Fig. 3.

