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*Supplement of*

## **Late Pleistocene glacial–interglacial shell-size–isotope variability in planktonic foraminifera as a function of local hydrography**

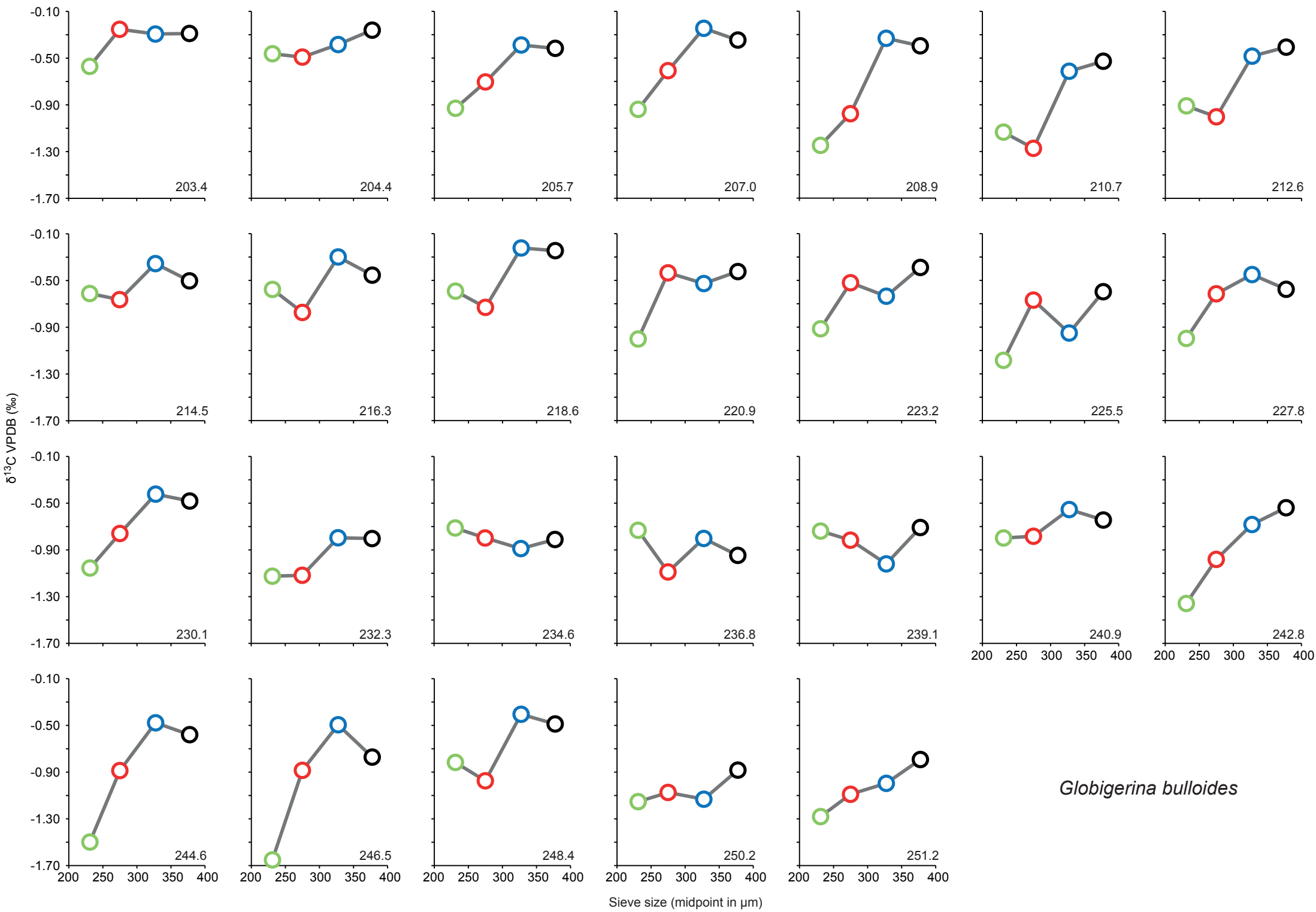
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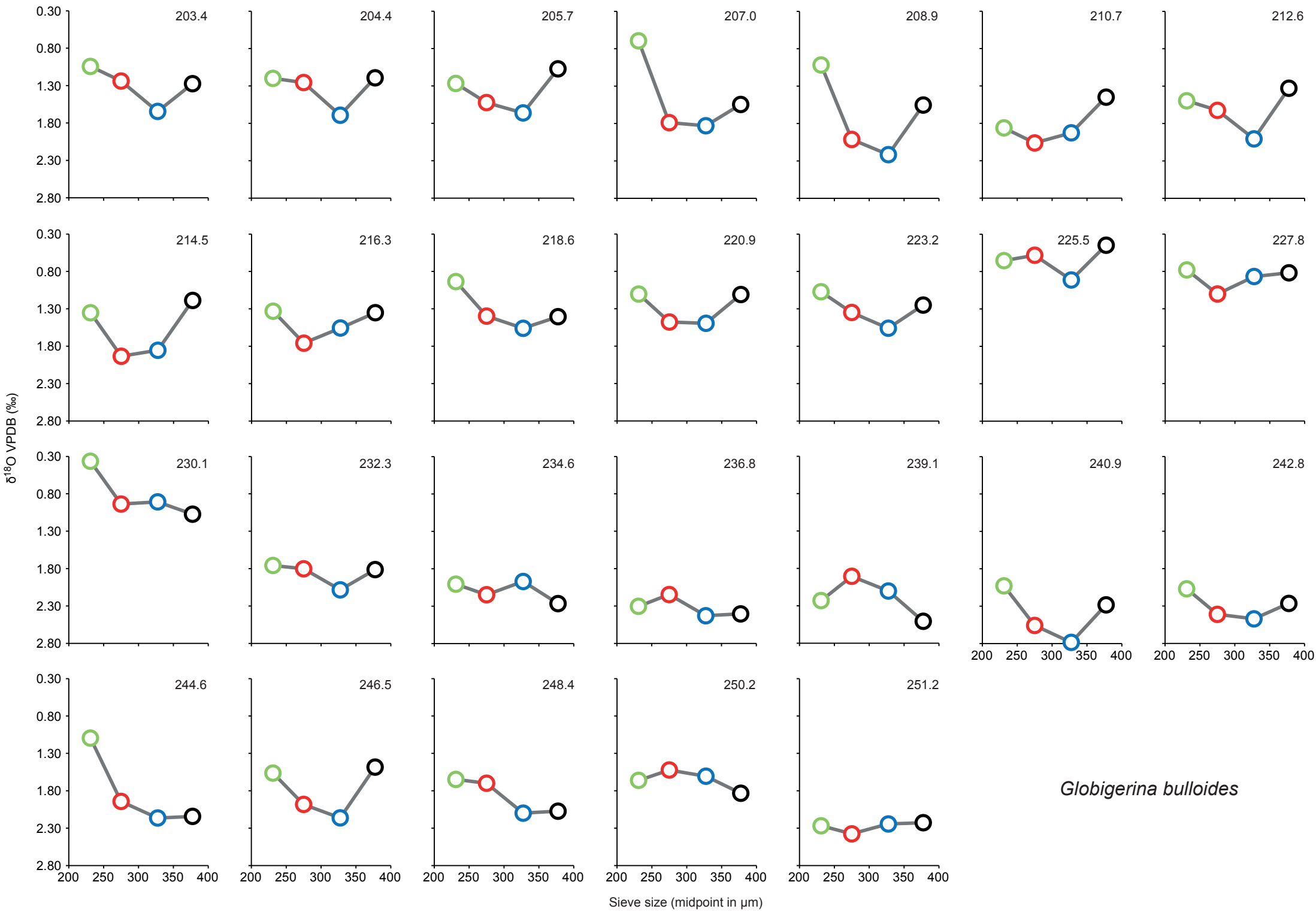
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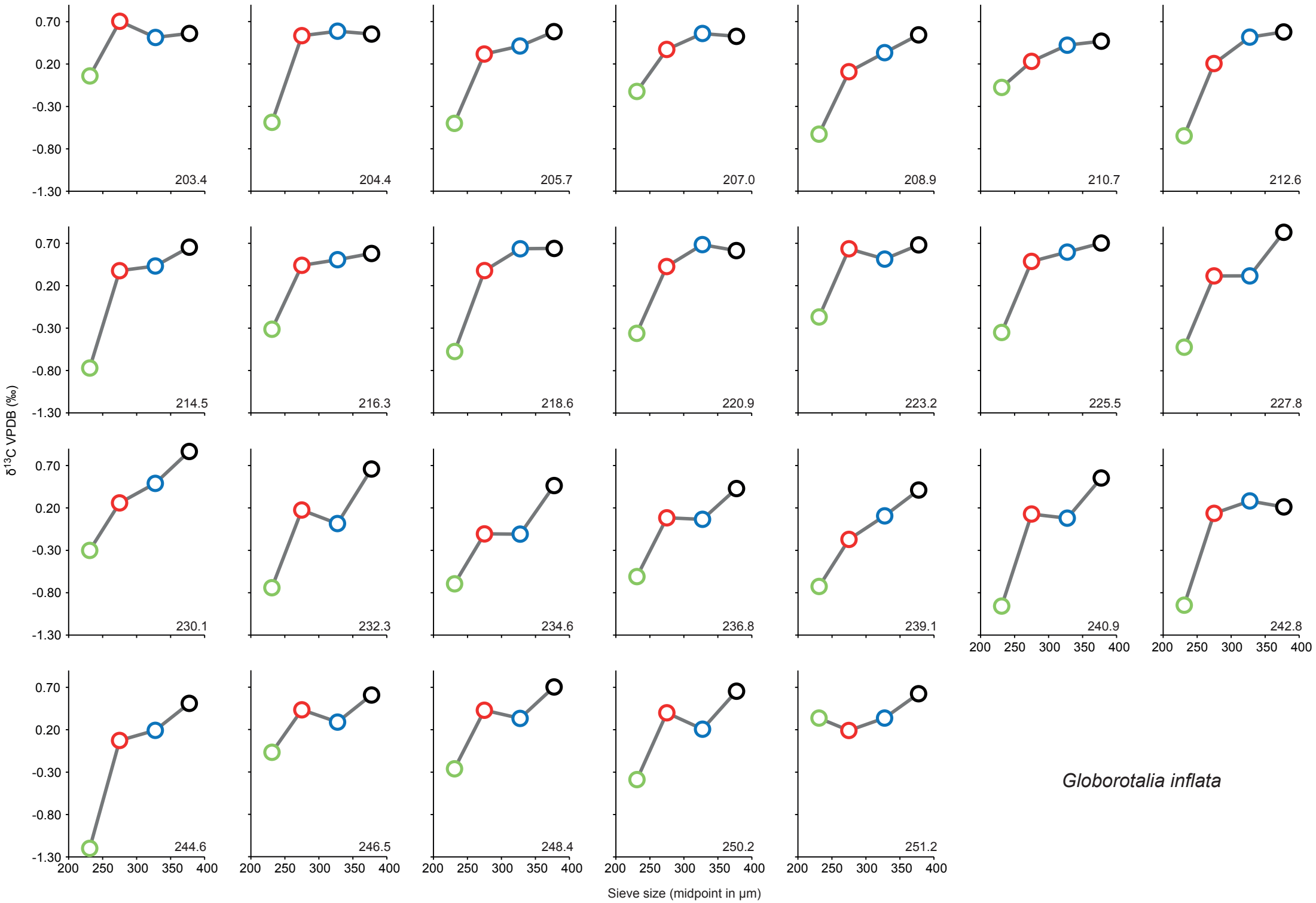
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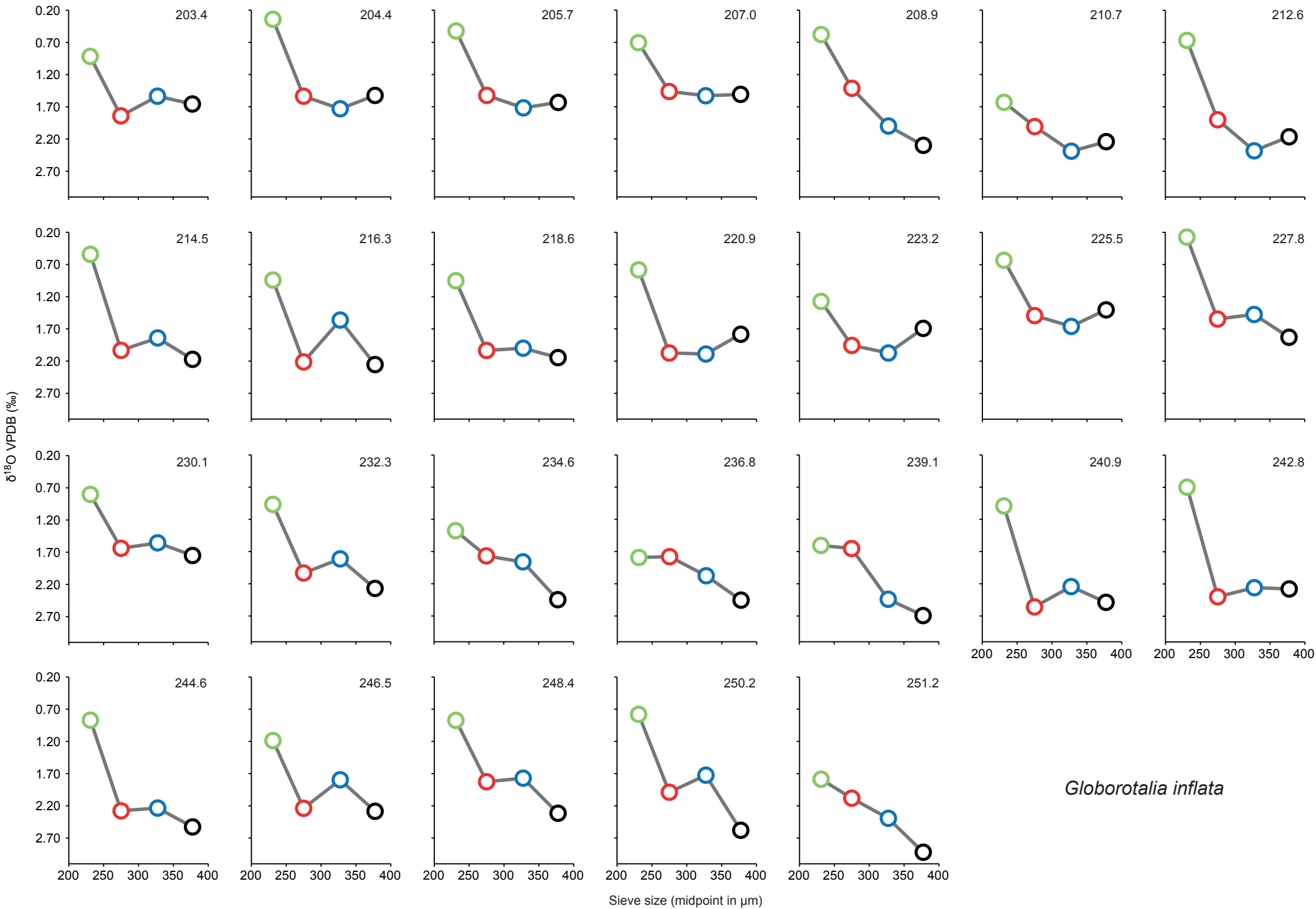
**Fig. S1 to S6.** Size isotope distribution. Intra-species size isotope distribution per sample (age in kya in top right of plot), trends can be grouped into either: “normal” in which progressively larger sizes are more enriched, “reversed” in which larger sizes are more depleted and “mixed” in which no clear trend can be deduced, for both  $\delta^{18}\text{O}$  and  $\delta^{13}\text{C}$  (Berger et al., 1978).

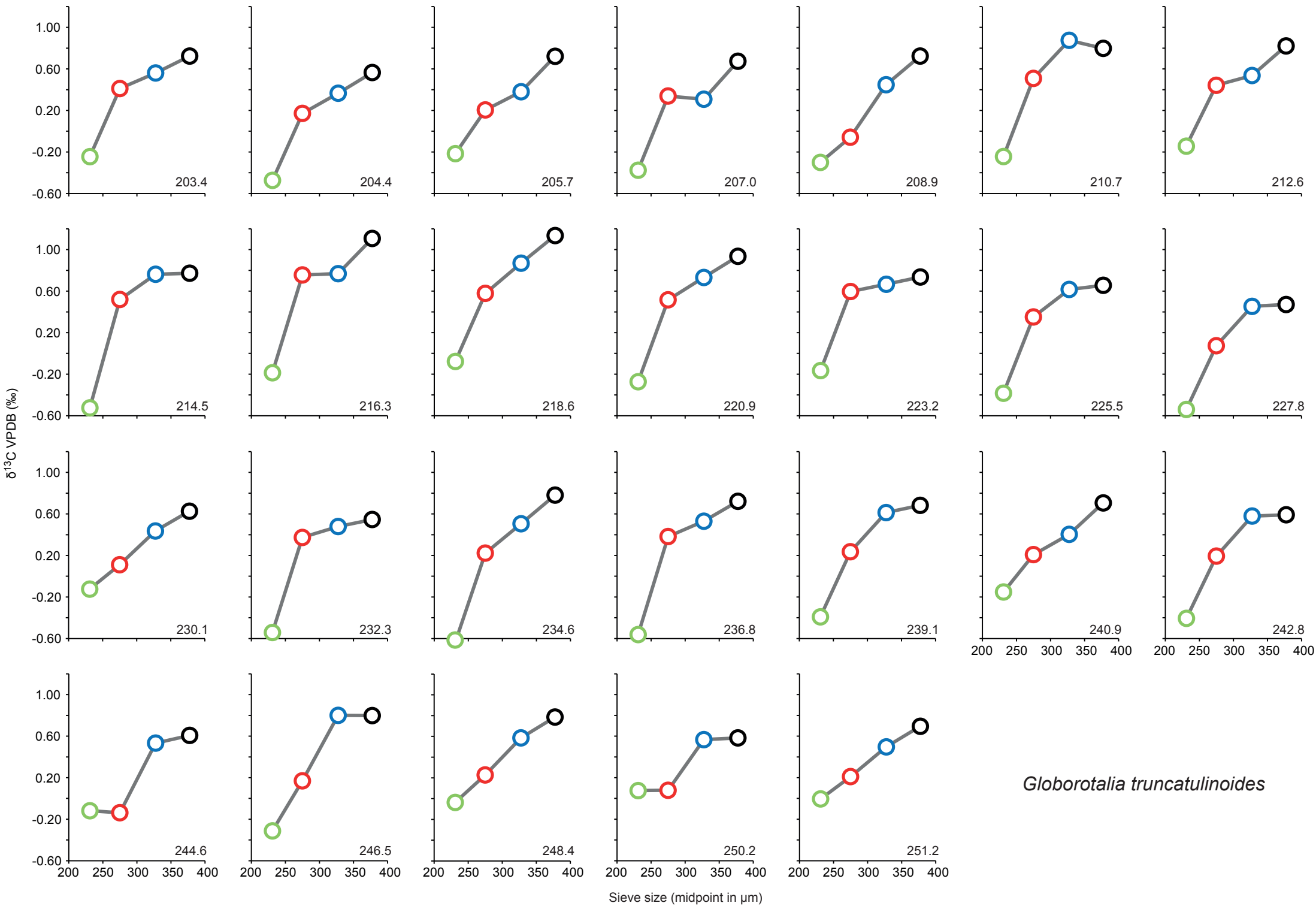
Size fractions used are 212-250  $\mu\text{m}$  (green); 250-300  $\mu\text{m}$  (red); 300-355  $\mu\text{m}$  (blue) and 355-400  $\mu\text{m}$  (black).

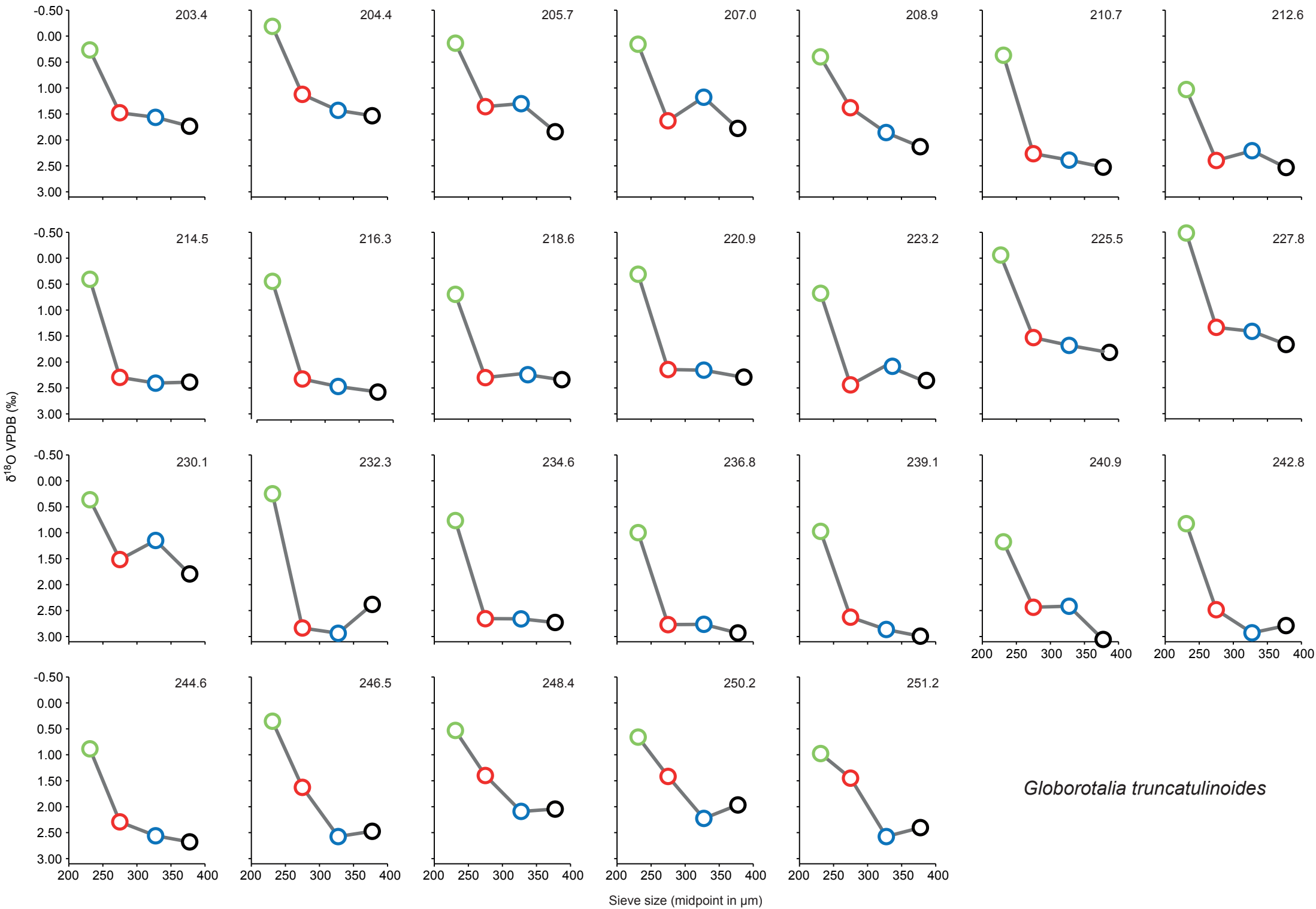








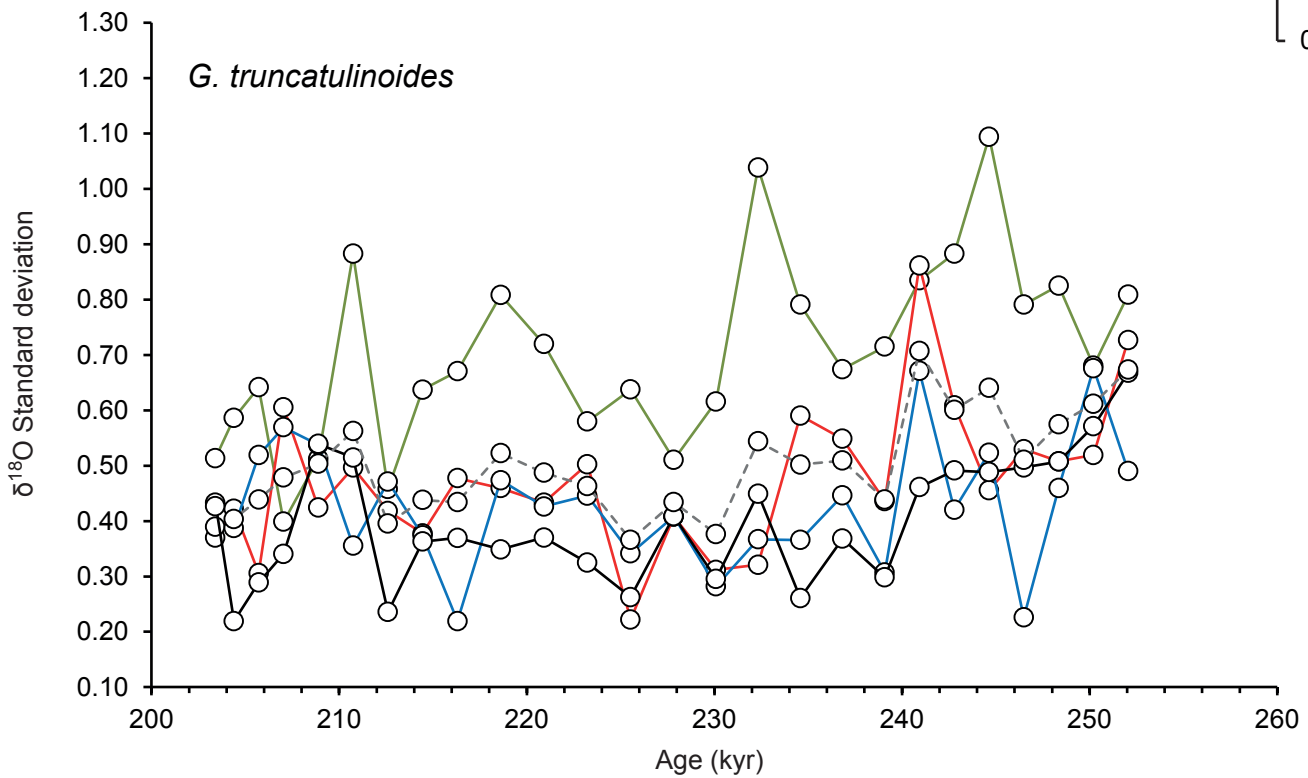
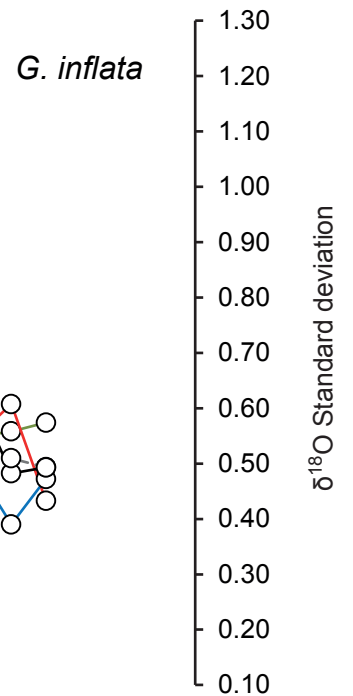
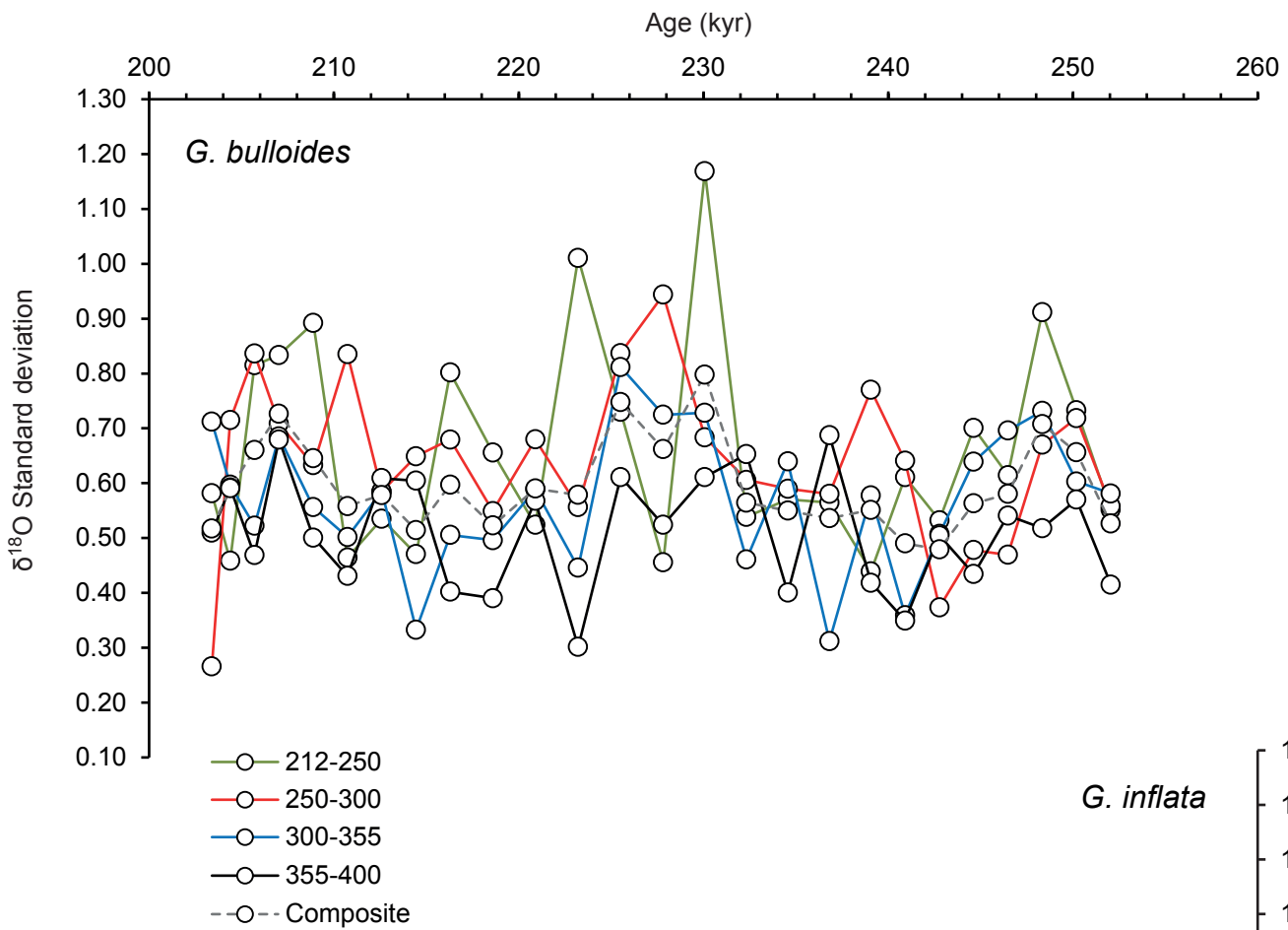






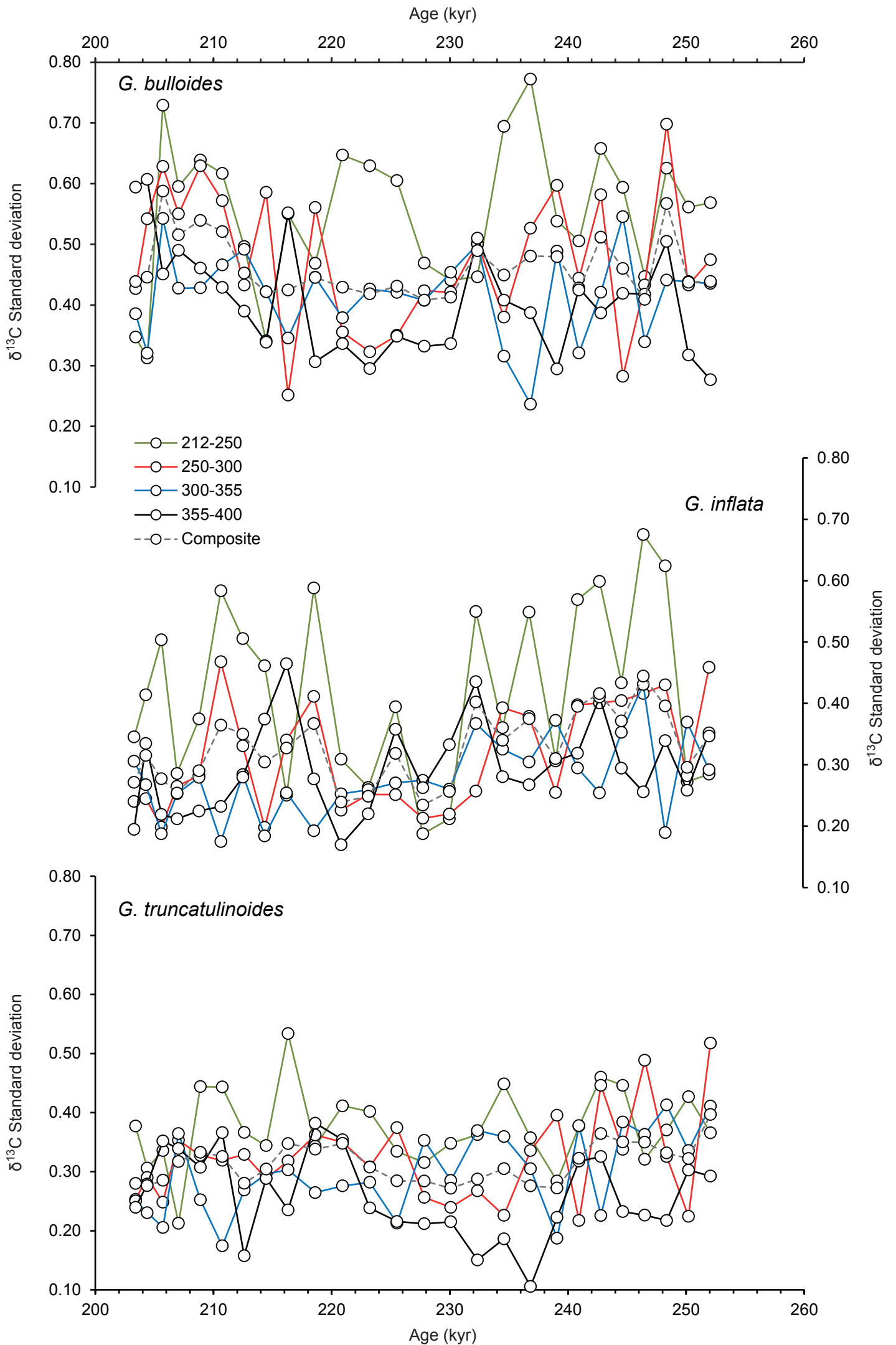
**Fig. S7.** Standard deviation of oxygen isotopes. Standard deviation of  $\delta^{18}\text{O}$ , corrected for outliers for the analysed species *G. bulloides*, *G. inflata* and *G. truncatulinoides* for each size fraction, and the average standard deviation for all size fractions (“composite”).

Size fractions used are 212-250  $\mu\text{m}$  (green); 250-300  $\mu\text{m}$  (red); 300-355  $\mu\text{m}$  (blue) and 355-400  $\mu\text{m}$  (black).

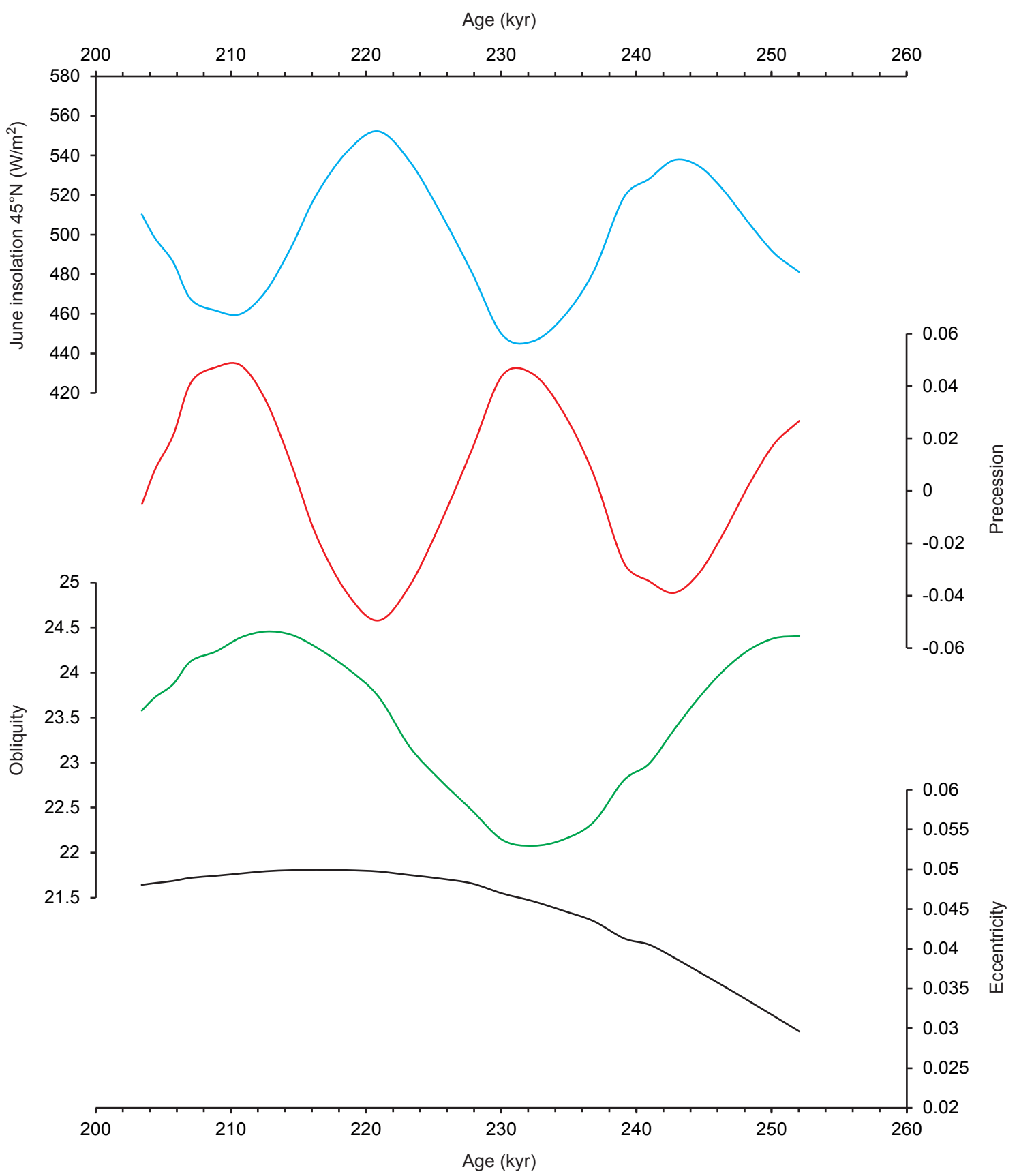


**Fig. S8.** Standard deviation of carbon isotopes. Standard deviation of  $\delta^{13}\text{C}$ , corrected for outliers for the analysed species *G. bulloides*, *G. inflata* and *G. runcatulinoides* for each size fraction, and the average standard deviation for all size fractions (“composite”).

Size fractions used are 212-250  $\mu\text{m}$  (green); 250-300  $\mu\text{m}$  (red); 300-355  $\mu\text{m}$  (blue) and 355-400  $\mu\text{m}$  (black).



**Fig. S9.** Orbital parameters during MIS8-MIS7. Computed values of June 45°N Insolation, Precession, Obliquity and Eccentricity for the time interval 200-260 kyr.



**Table S1.** Raw oxygen isotope values







**Table S2.** Raw carbon isotope values



