

## Vertebral chemistry demonstrates movement and population structure of bronze whaler

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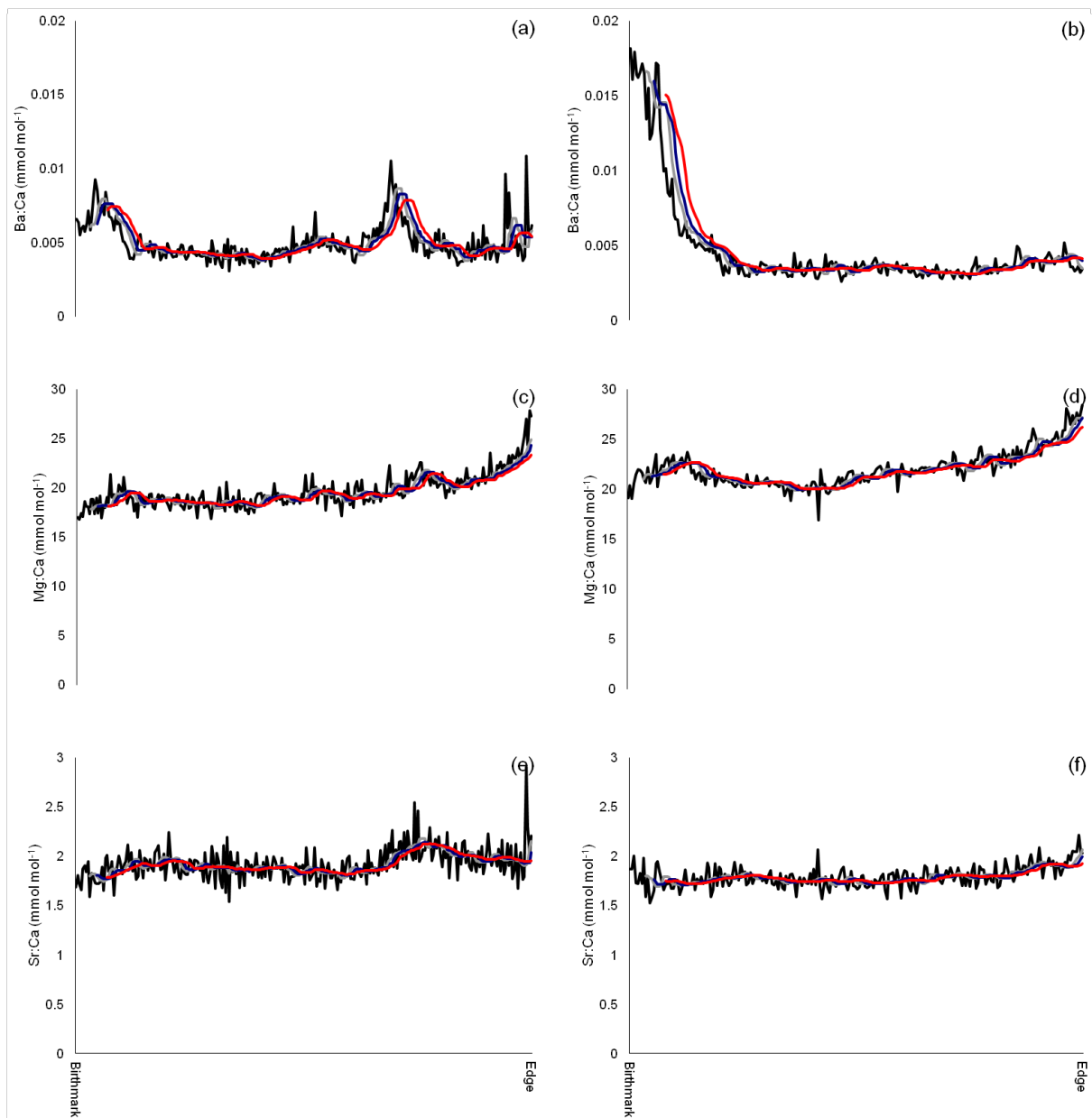


Fig S1 (continued next page).

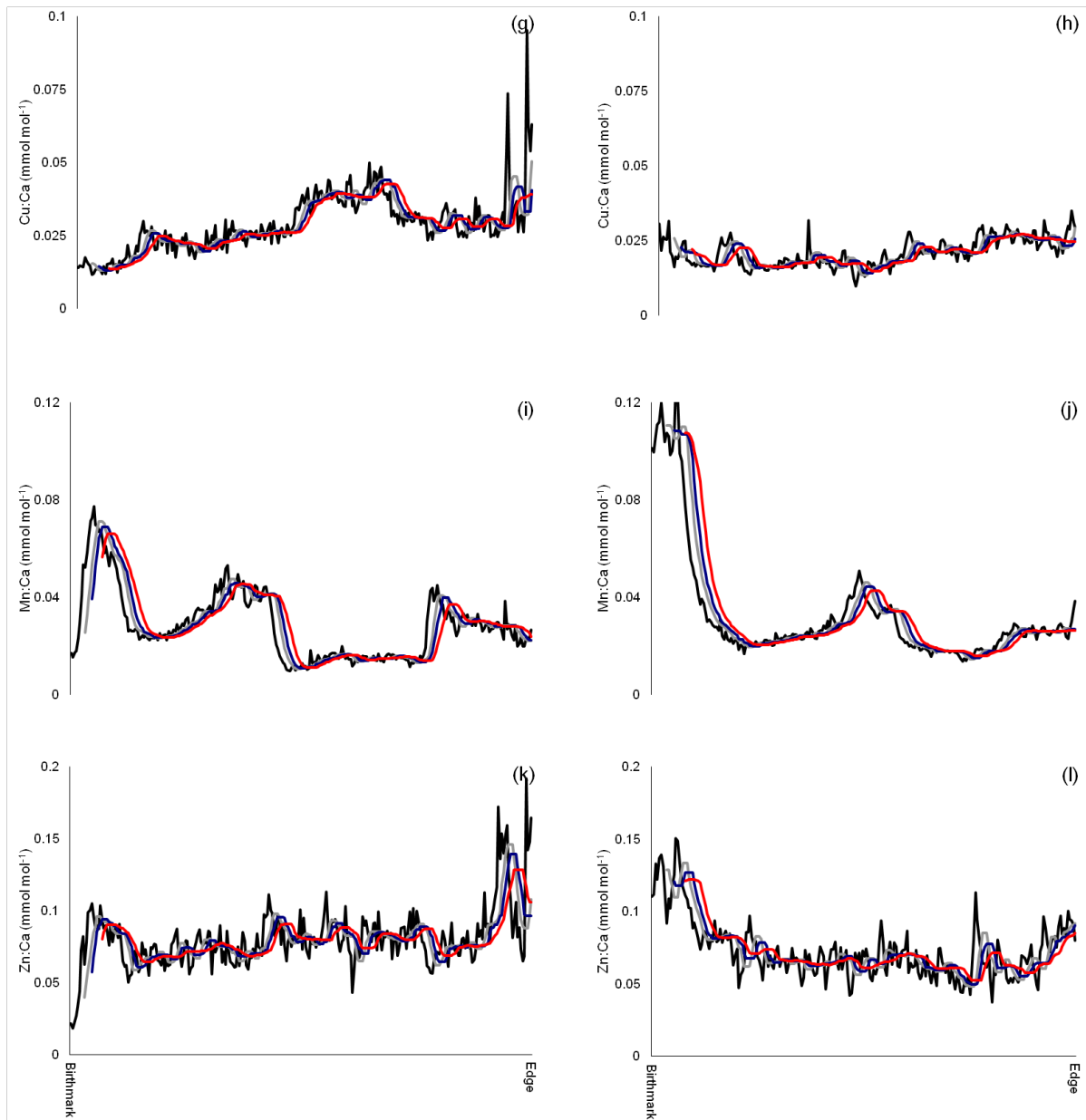


Fig. S1 (continued). Representative multi-element profiles of *Carcharhinus brachyurus* from South Australian gulfs. Profiles from two sharks (on the left and right-hand panels) for: (a & b) Ba:Ca, (c & d) Mg:Ca, (e & f) Sr:Ca, (g & h) Cu:Ca, (i & j) Mn:Ca, and (k & l) Zn:Ca (in  $\text{mmol mol}^{-1}$ ) originate from the birthmark and run along the *corpus calcareum* to the marginal edge of the vertebral centra (refer to Fig. 2a in the main article). Coloured lines represent different running mean and median smoothing of the same element data: black: raw data; grey: 5-point; blue: 7-point; and red: 10-point. Note y-axes vary among panels.

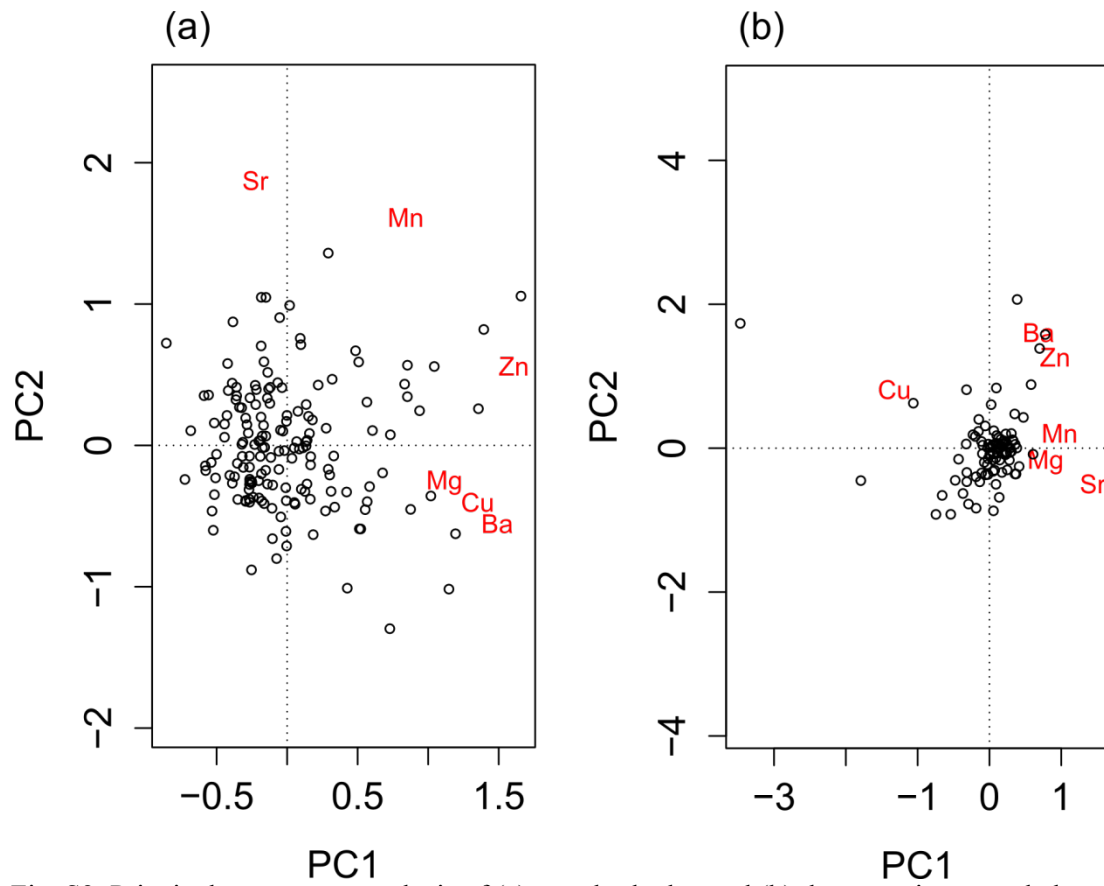


Fig. S2. Principal component analysis of (a) vertebral edge and (b) the mean integrated elemental signal of *Carcharhinus brachyurus* from South Australian gulfs. Variation explained by the first 2 principal components is represented.