

# focusing on the ocean: Distribution of chemicals

vertical profiles of various element in the Pacific ocean following the periodic table

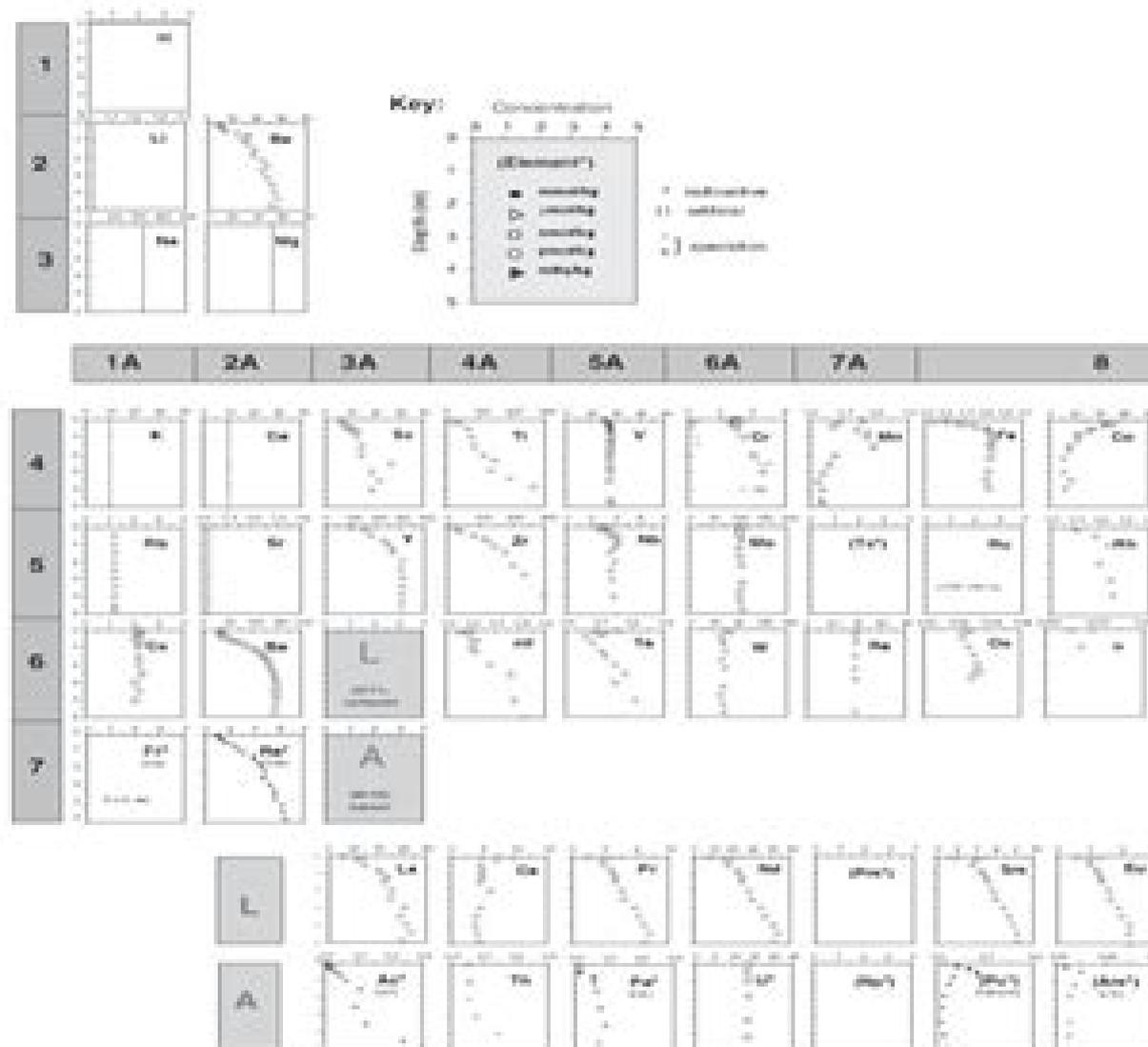


FIGURE 15.11 Vertical profiles of elements from the Pacific Ocean arranged as in the periodic table of elements (Mendenhall, 1975). The transition elements have lower surface concentrations. Most other elements have lower concentrations at the surface than at depth, due to biological removal. Multivalent elements are easily depleted in transition. <sup>2+</sup> at the surface, whereas transition elements decrease down only partial depletion. Oxygen and the noble gases on the right side of the figure are influenced in part by their higher solubility at colder

# Ocean Biogeochemical Dynamics

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