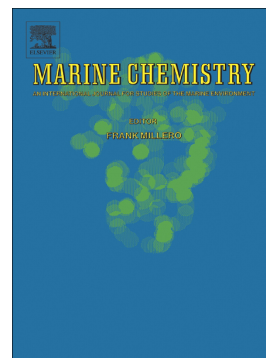


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Effects of the Atlantic water and glacial run-off on the spatial distribution of particulate trace elements in the Kongsfjorden

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Highlights:

- Glacial run-off is the main source for Al, Co, Fe, K and V.
- Ba, Cd, Cr, Cu, Mn, Ni, Pb and Zn are introduced by intruding Atlantic water.
- Cd, Cr, Cu, Ni and Zn are enriched respect to crustal values.
- Input of natural Pb linearly decreases with distance from Kongsvegen terminus.
- Maximum values of anthropogenic lead occur at the outermost stations.

Keywords: Svalbard, suspended particulate matter, lead isotope ratios, water circulation.

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