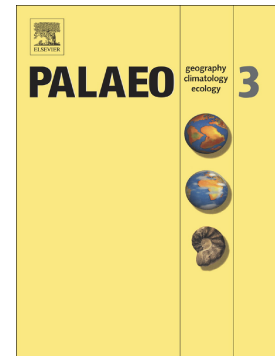


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## **Diatom records and tephra mineralogy in pingo deposits of Seward Peninsula, Alaska**

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### **Keywords**

- Microalgae assemblages
- Palaeoenvironments
- Thermokarst
- Late Quaternary
- Permafrost

### **Highlights**

- We present palaeolake archive from remote pingo deposits in western Alaska
- Diatoms reveal climate conditions enabling thermokarst 42,000 years ago
- Climate and volcanic tephra events had significant impact on the palaeoecology
- High precipitation and seasonal temperature gradients enabled glacial thermokarst

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