

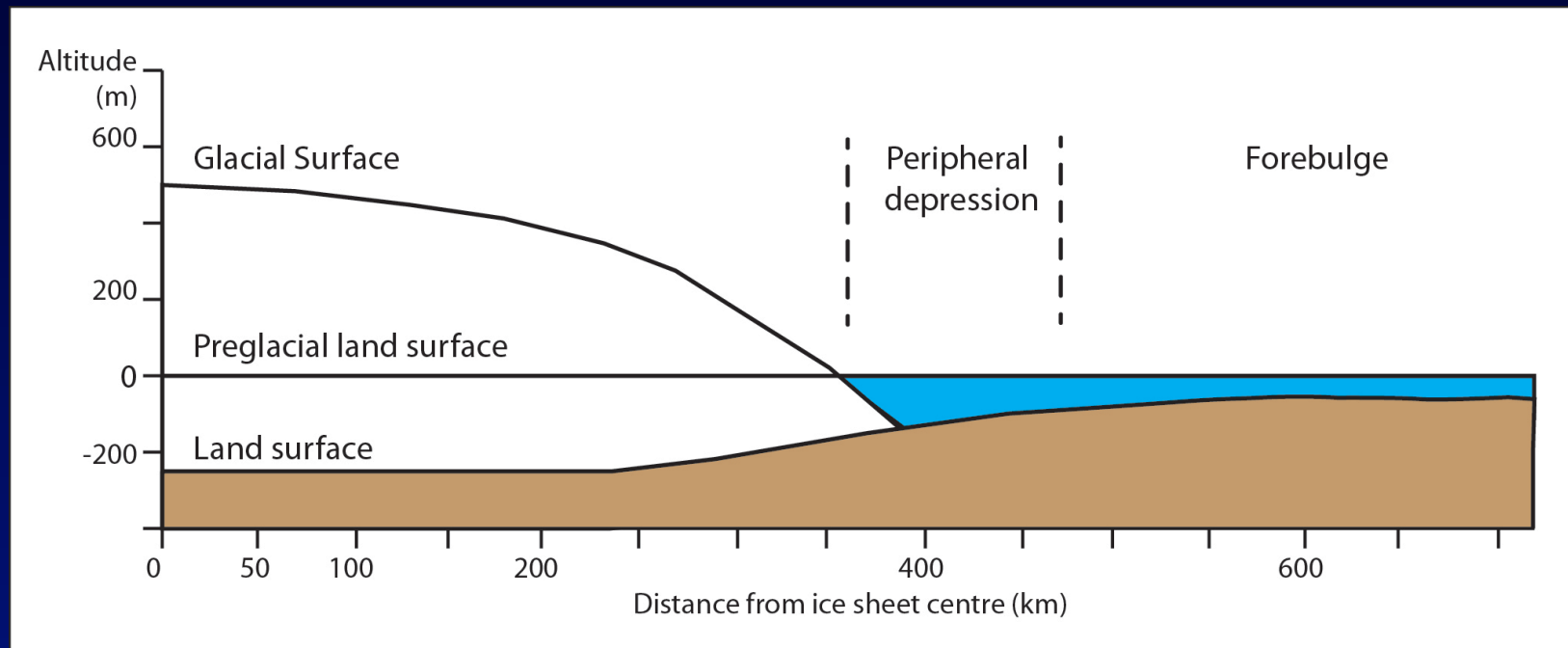
Glacioisostatic-induced depositional moats in coastal environments



John J. Clague and Corinne Griffing
SFU Department of Earth Sciences

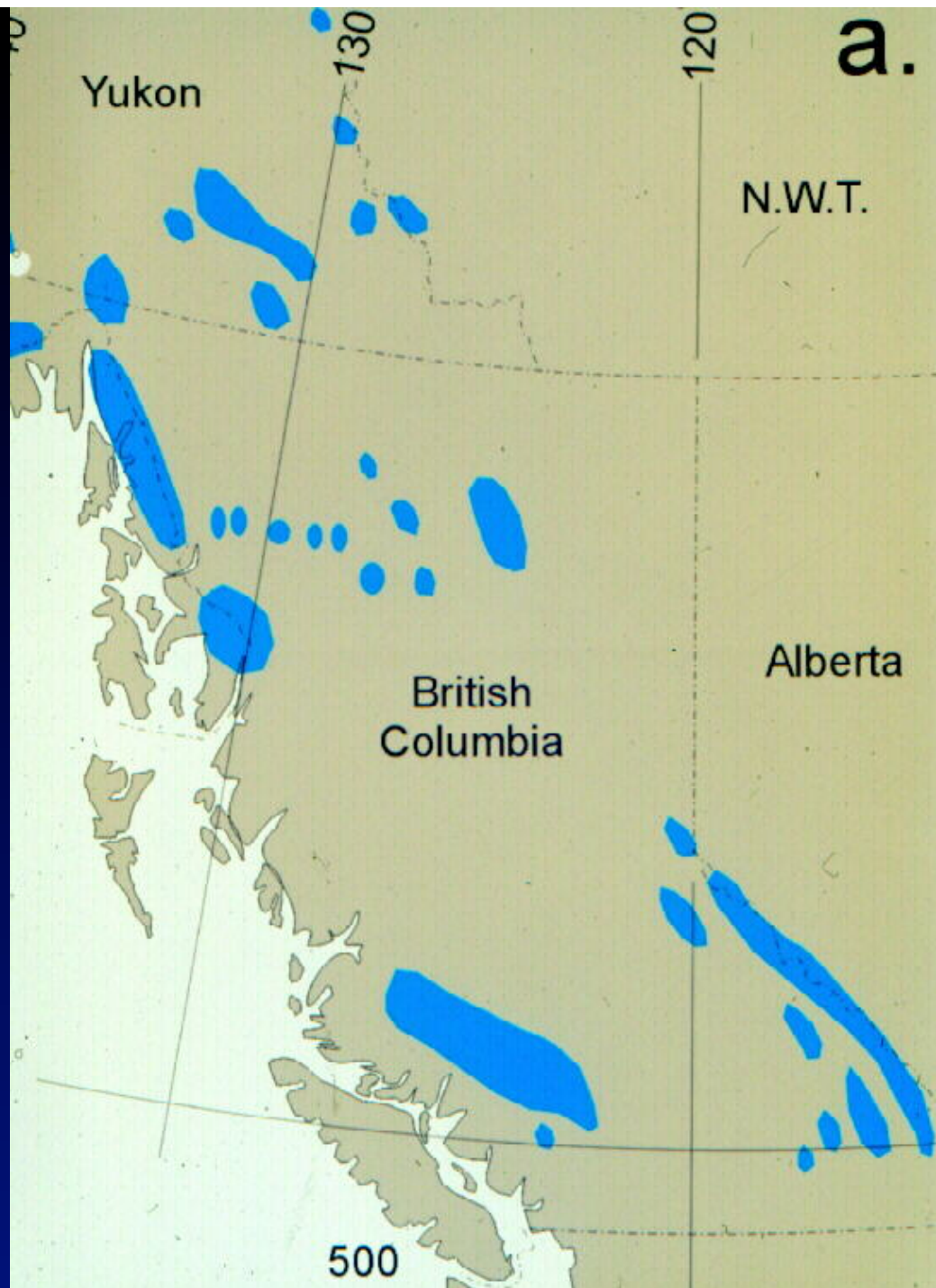
Glacio-isostatic depression can create the accommodation space required to explain thick sequences of sediment in areas of ice sheet glaciation

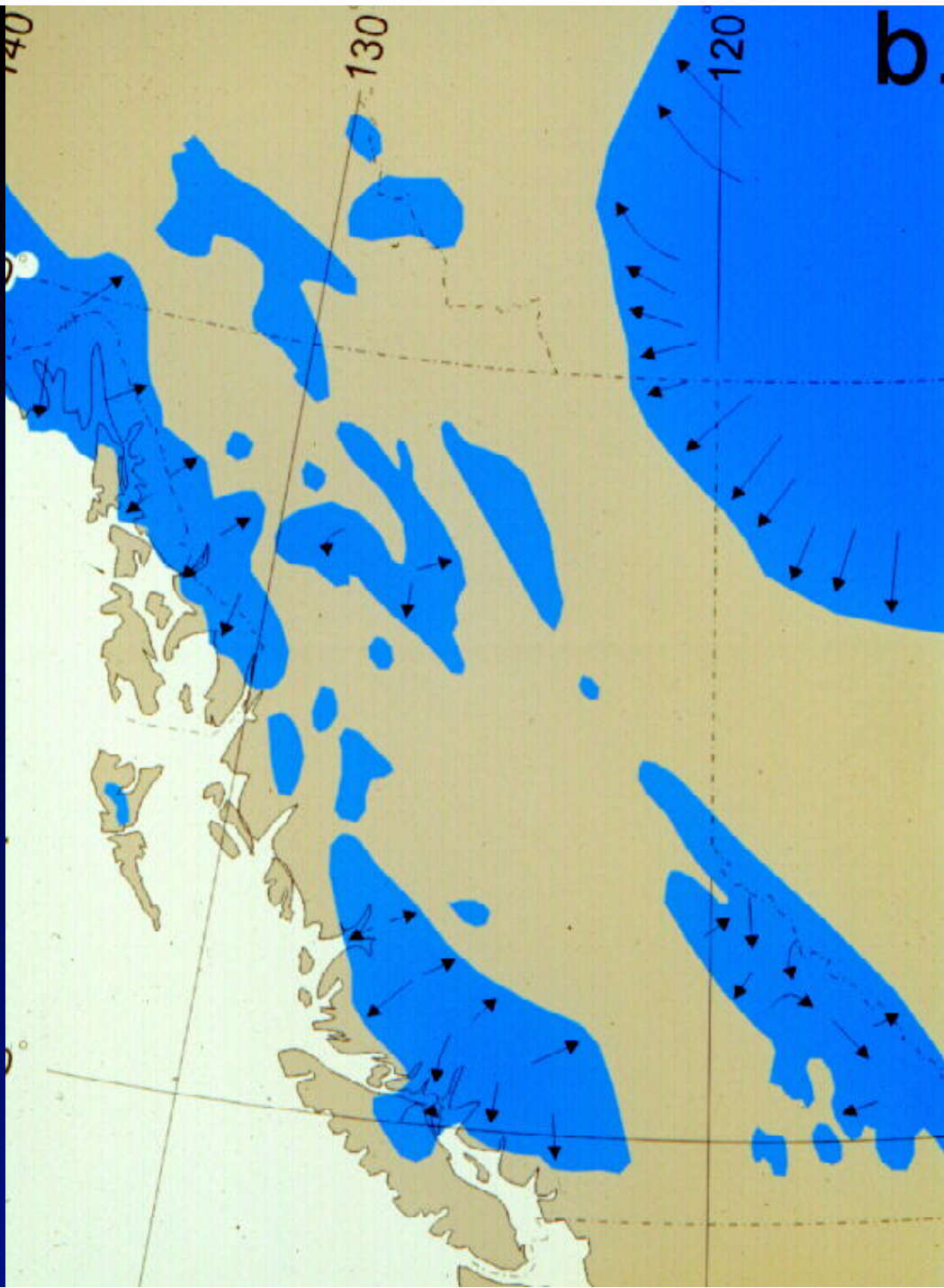
Glacier damming is not required to account for this accommodation space

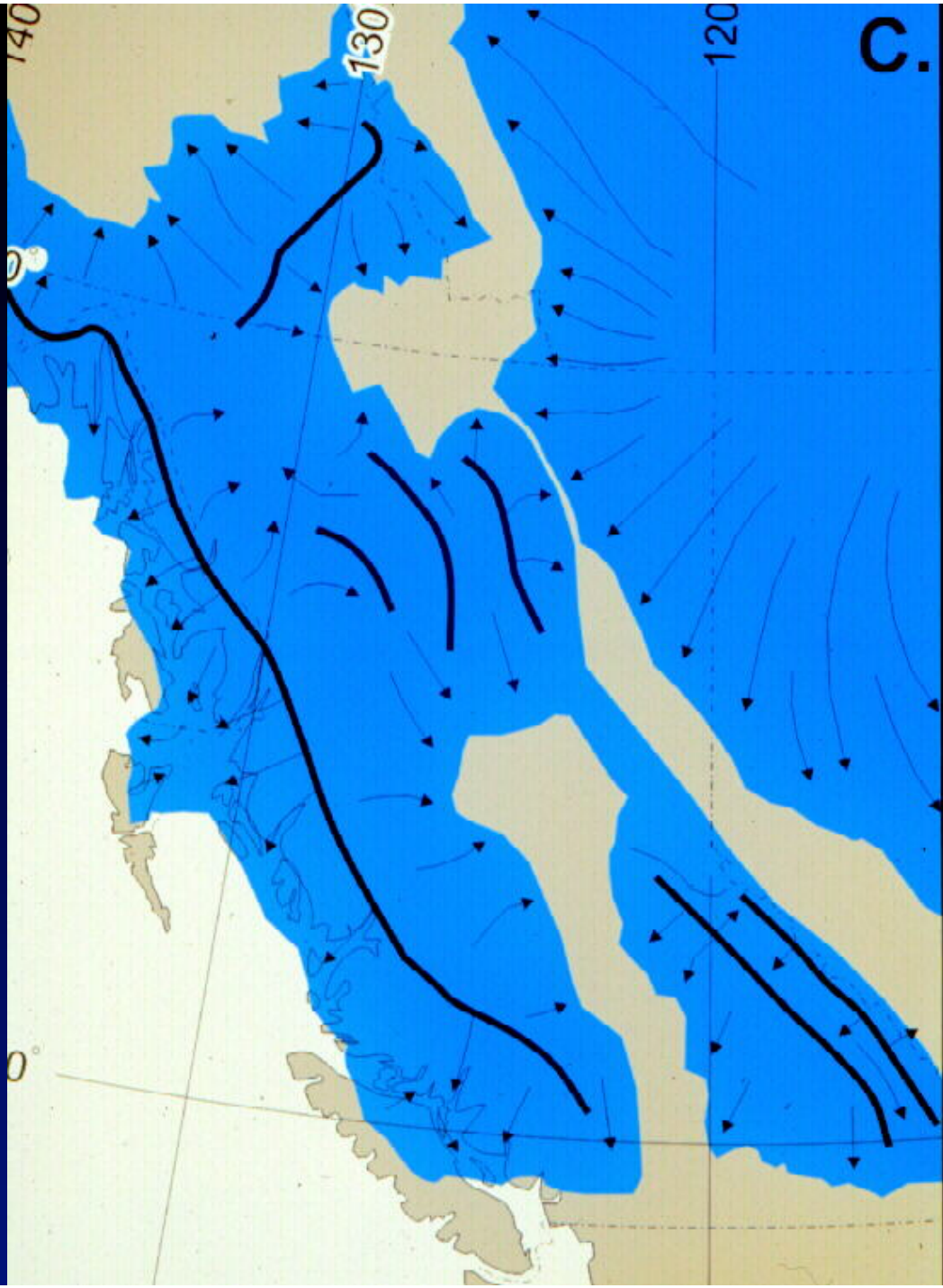


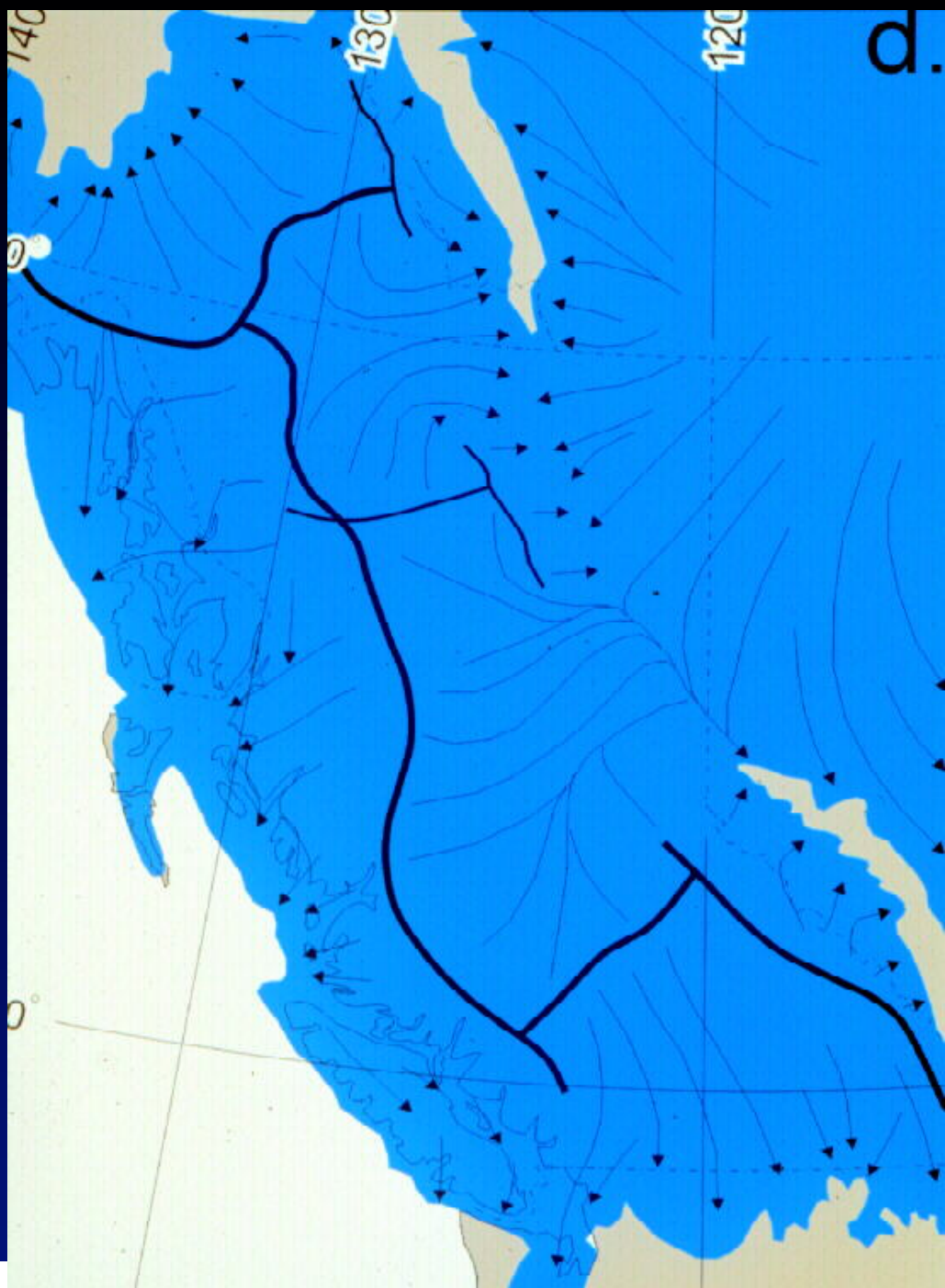
An example from Western Canada

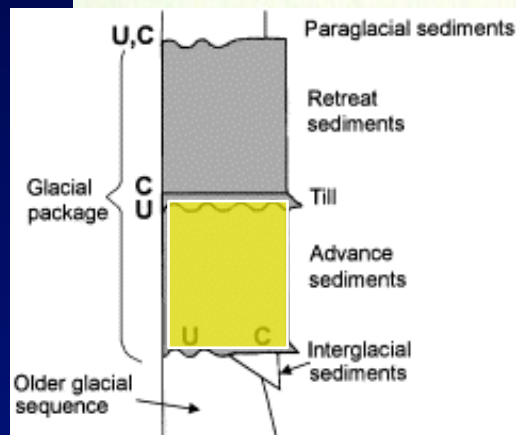
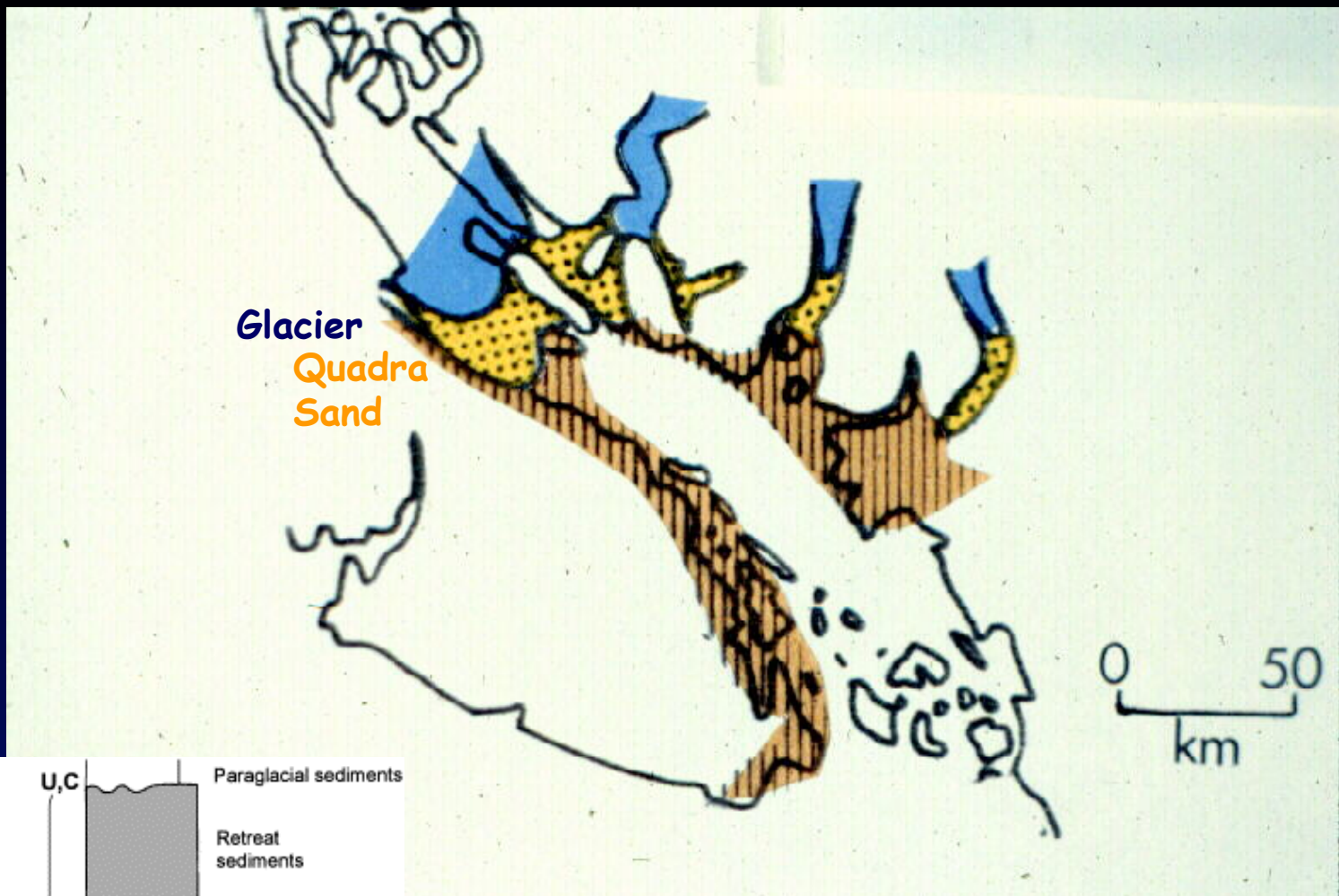


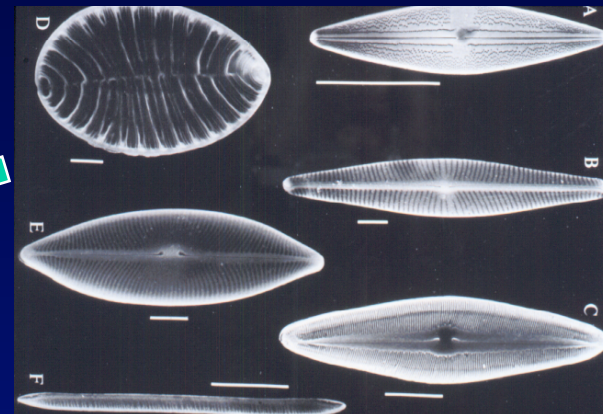
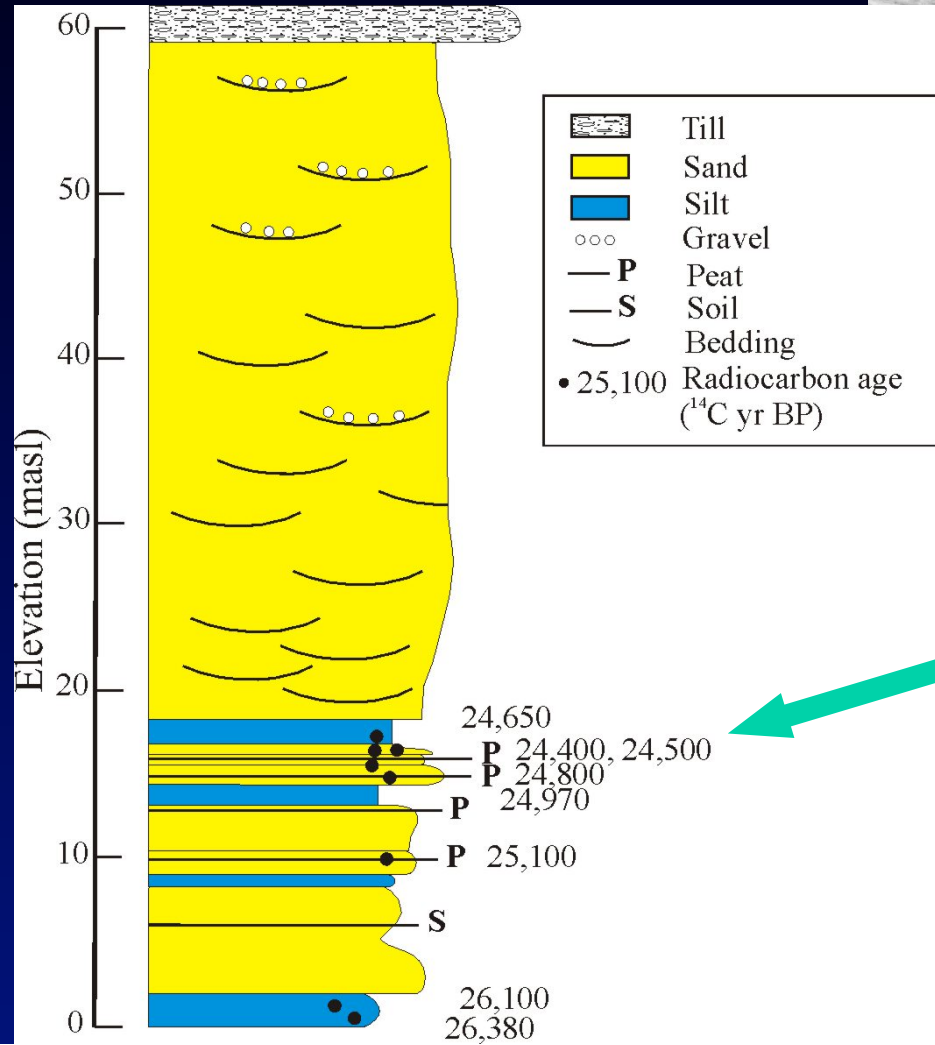


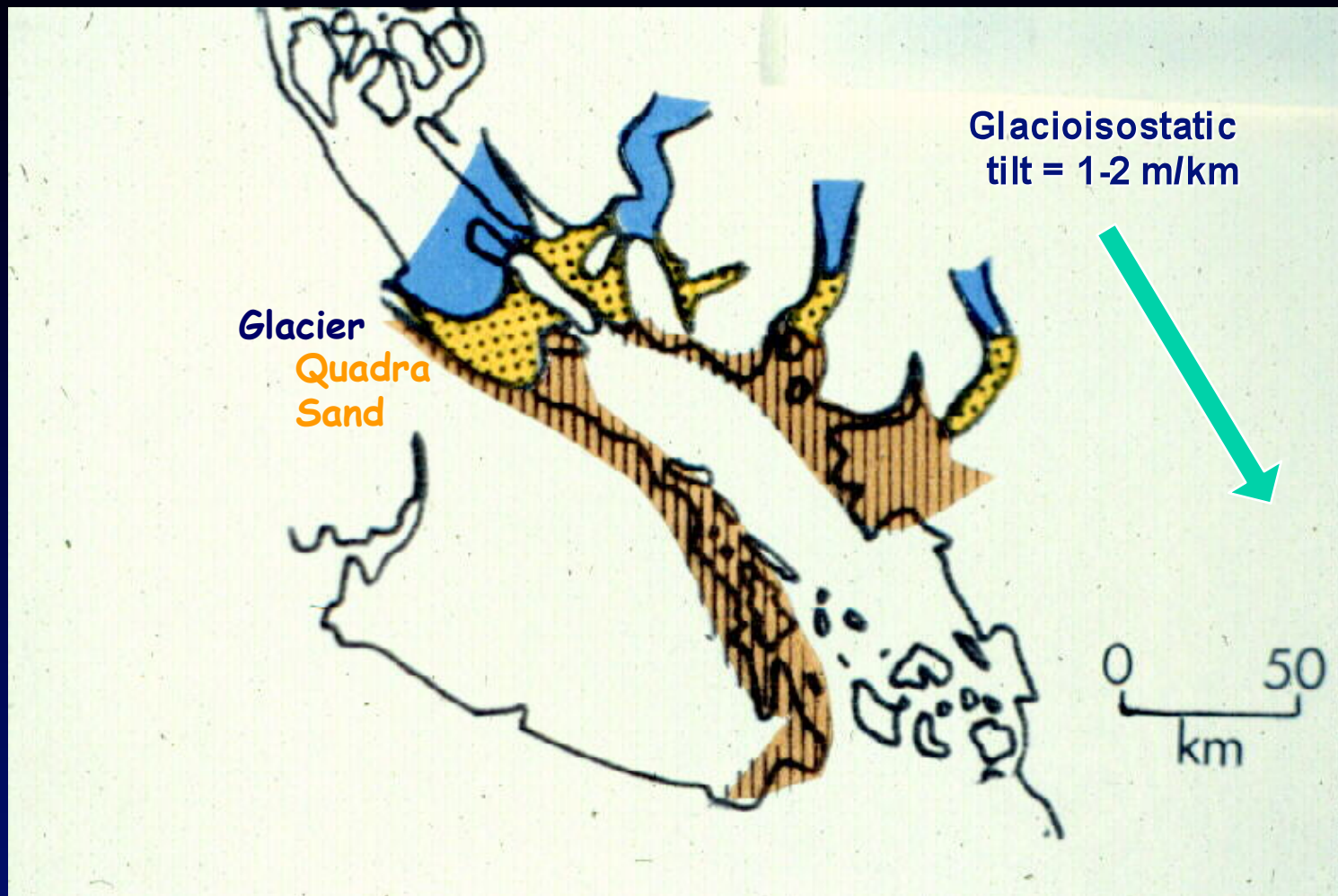






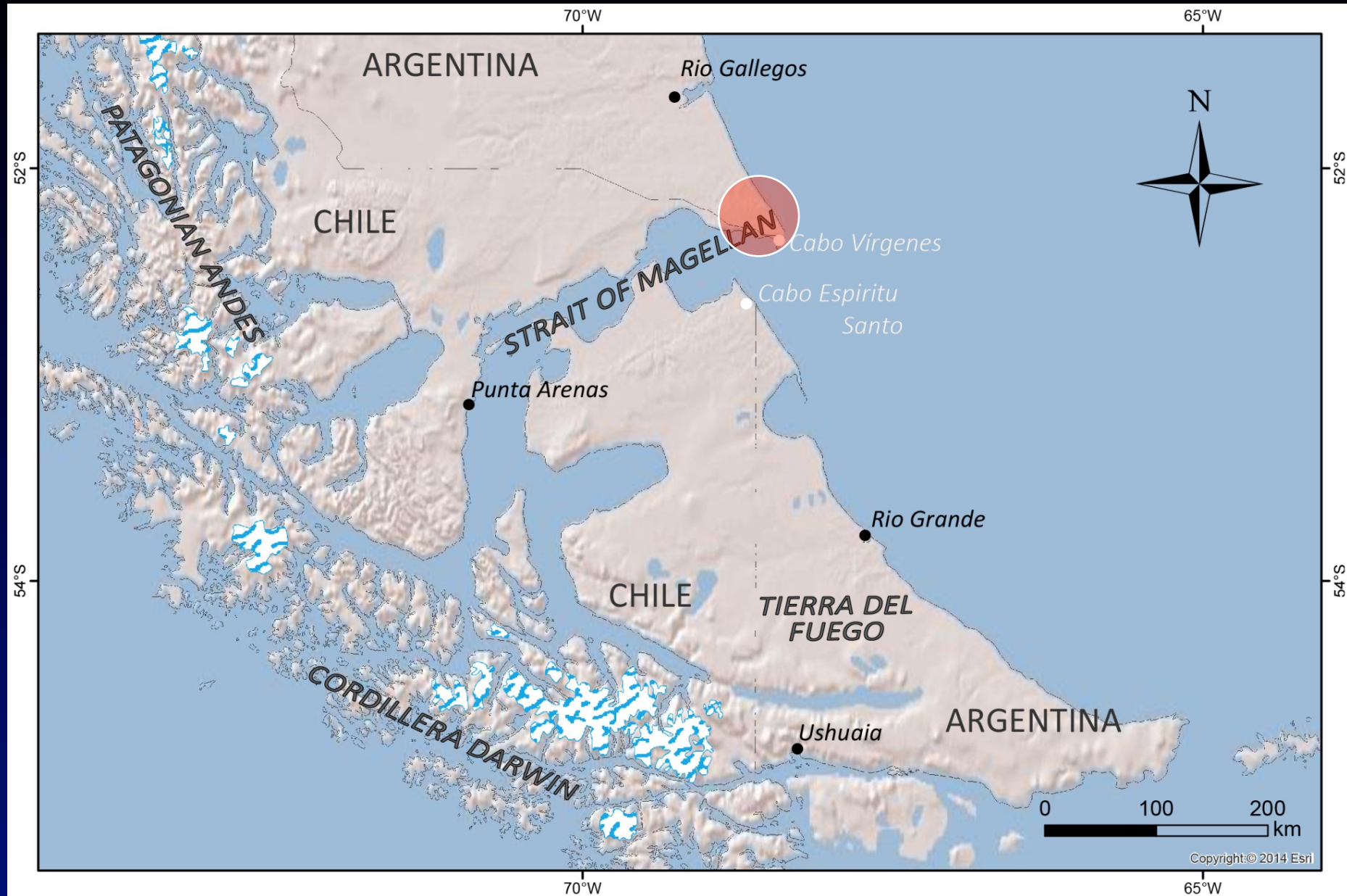




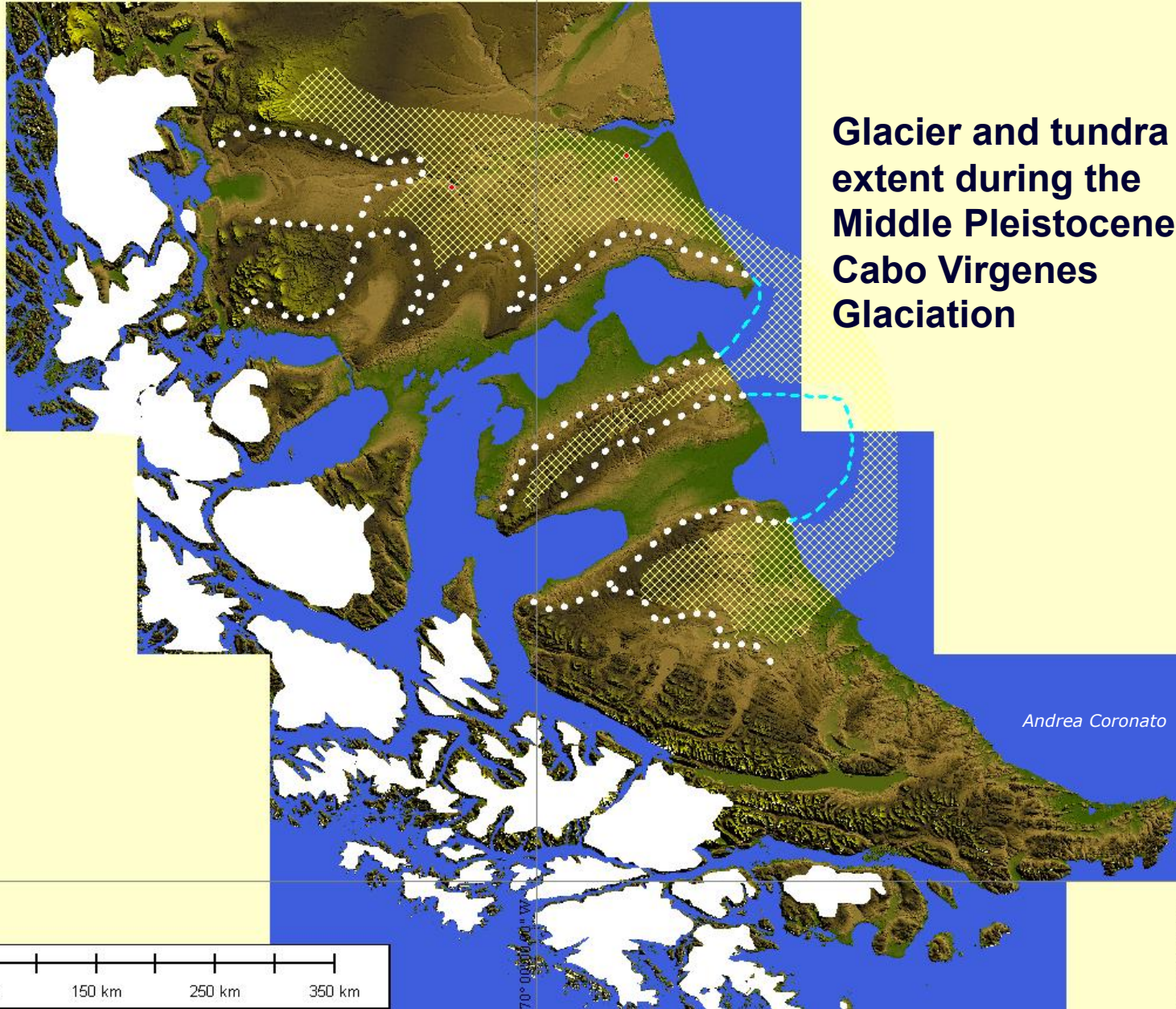


An example from Argentina

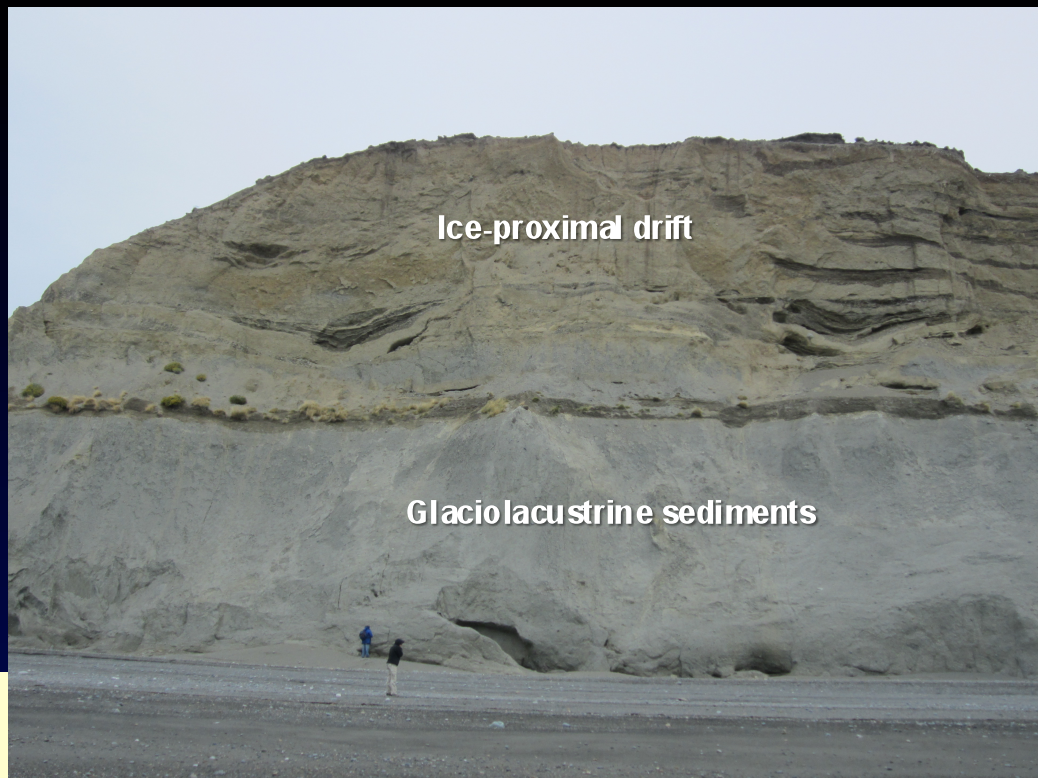


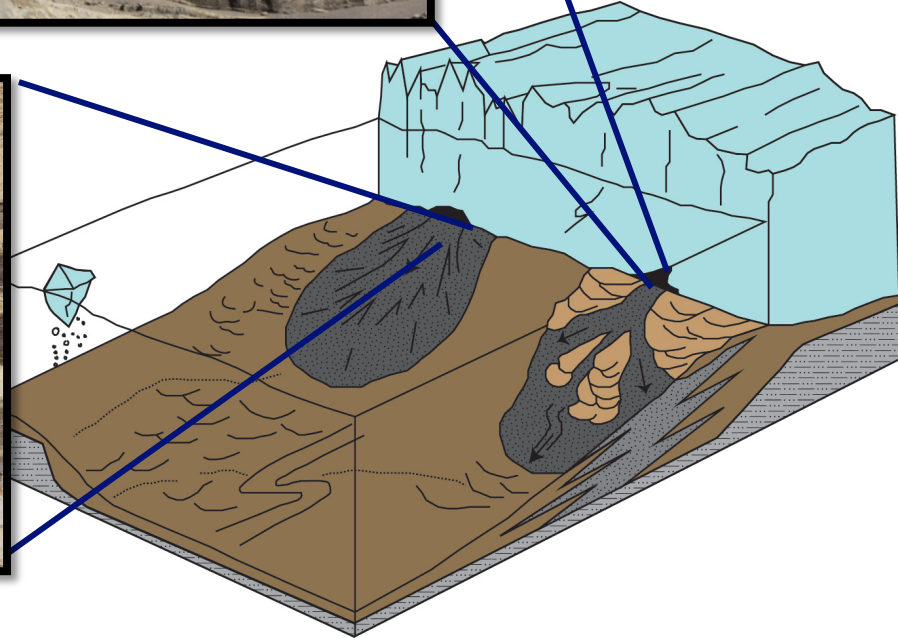


**Glacier and tundra
extent during the
Middle Pleistocene
Cabo Virgenes
Glaciation**



Andrea Coronato

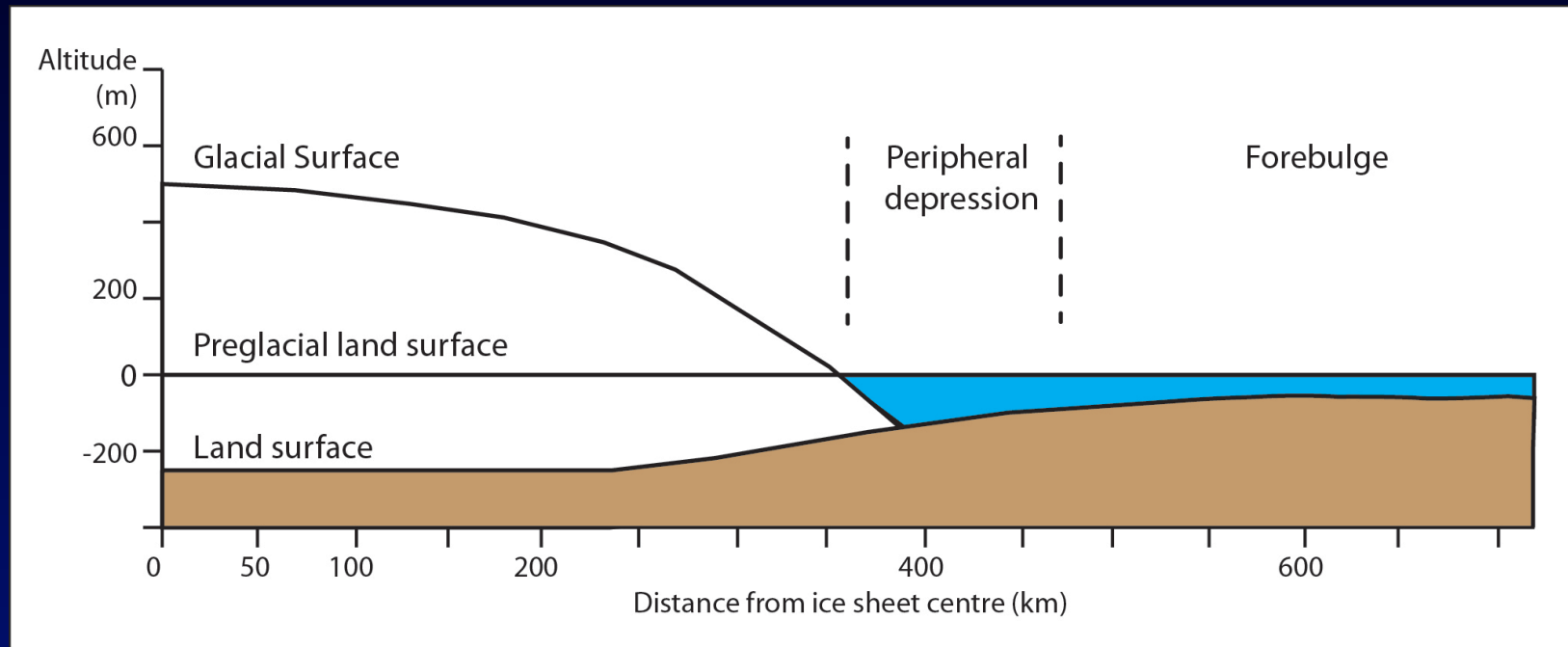




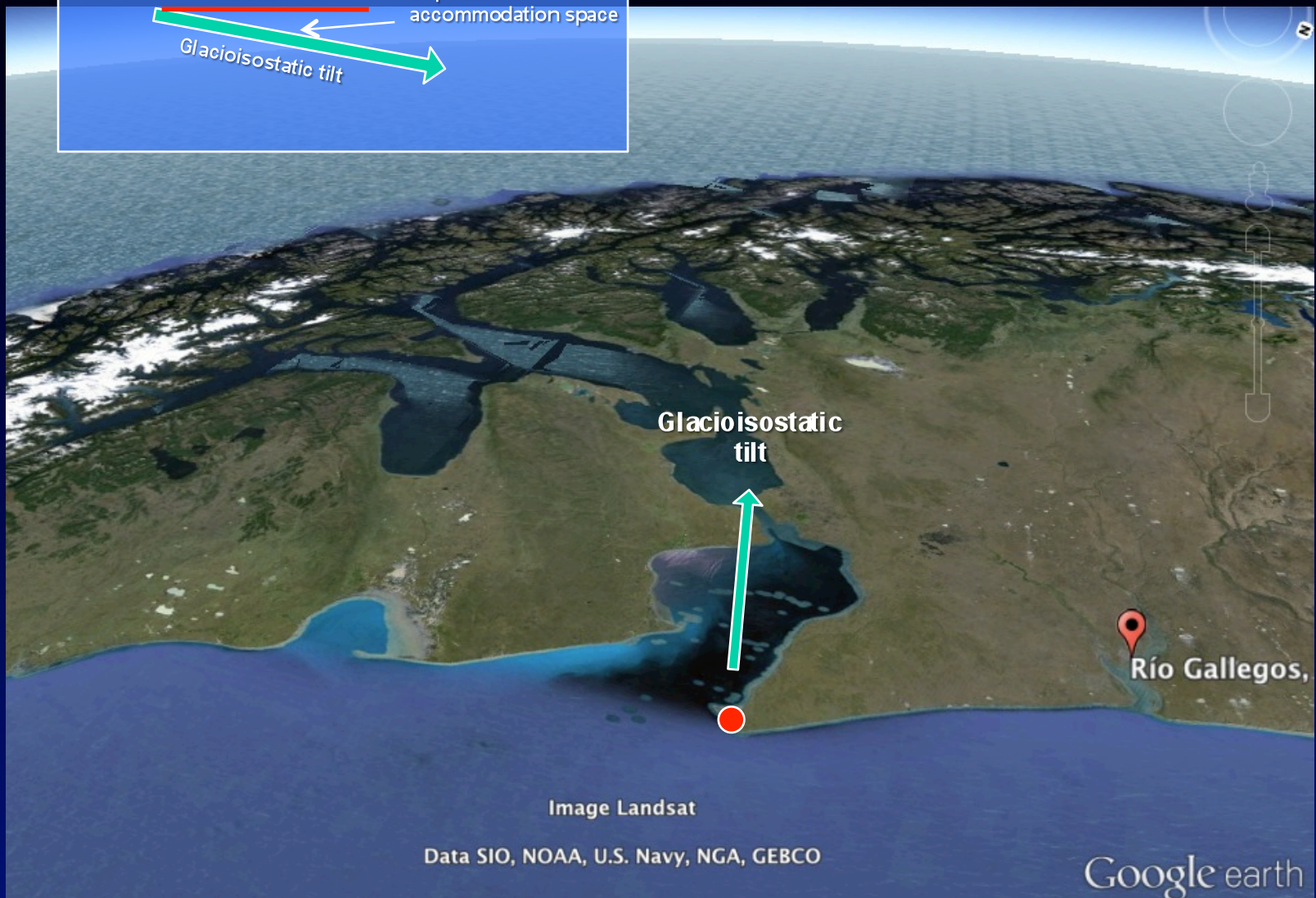
**Sheet gravel, sand, and
diamict deposited in ponded
water from meltwater and
sediment-density currents**

Bennett et al., 2002

Subaqueous deposition at modern coast, but no evidence of marine environment



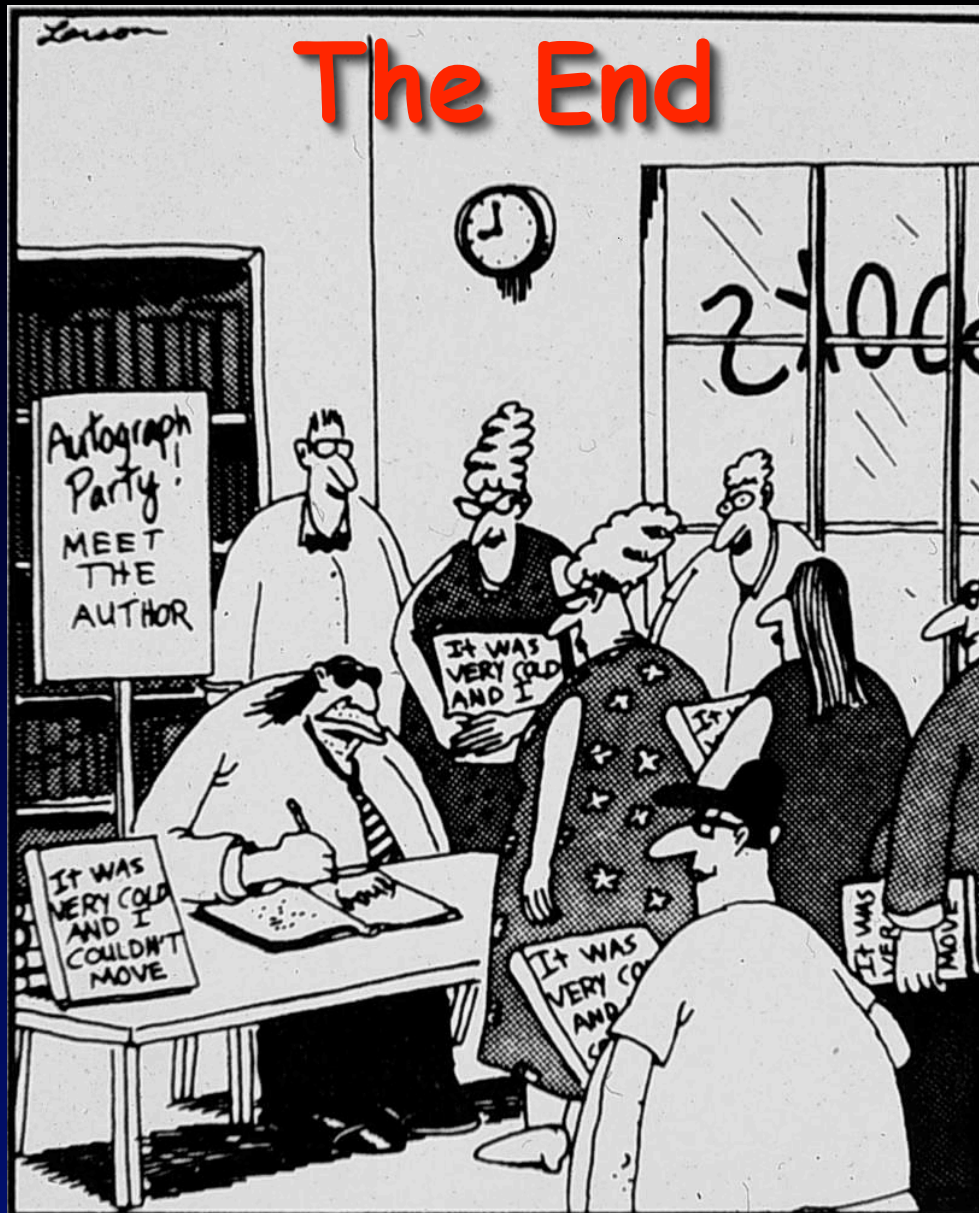
Modified from Benn and Evans, 2010



Summary

- *Glacio-isostatic depression can create the accommodation space required to explain thick sequences of sediment in areas of ice sheet glaciation*
- *Glacier damming is not required to account for this accommodation space*

The End



After being frozen in ice for 10,000 years,
Thag promotes his autobiography.