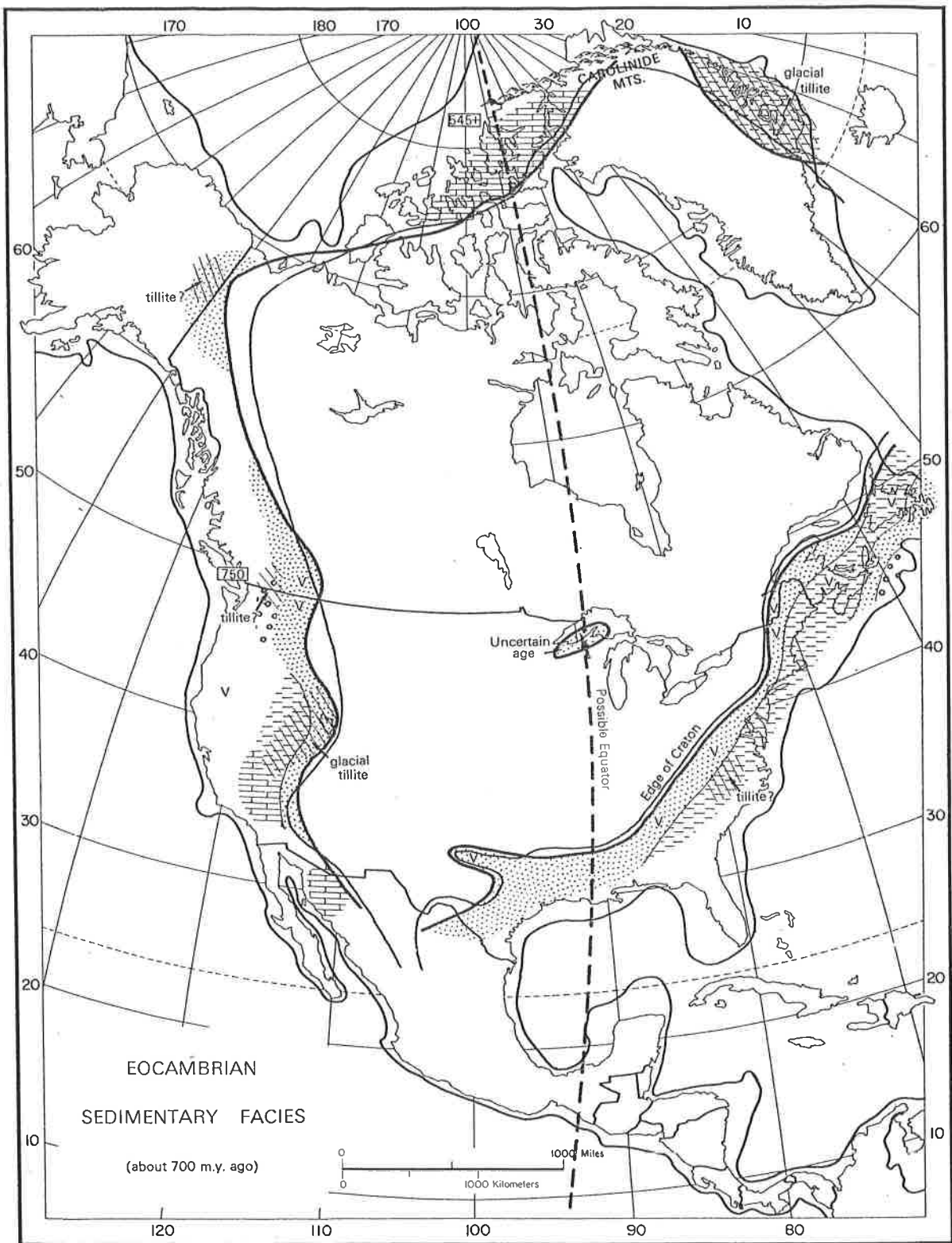
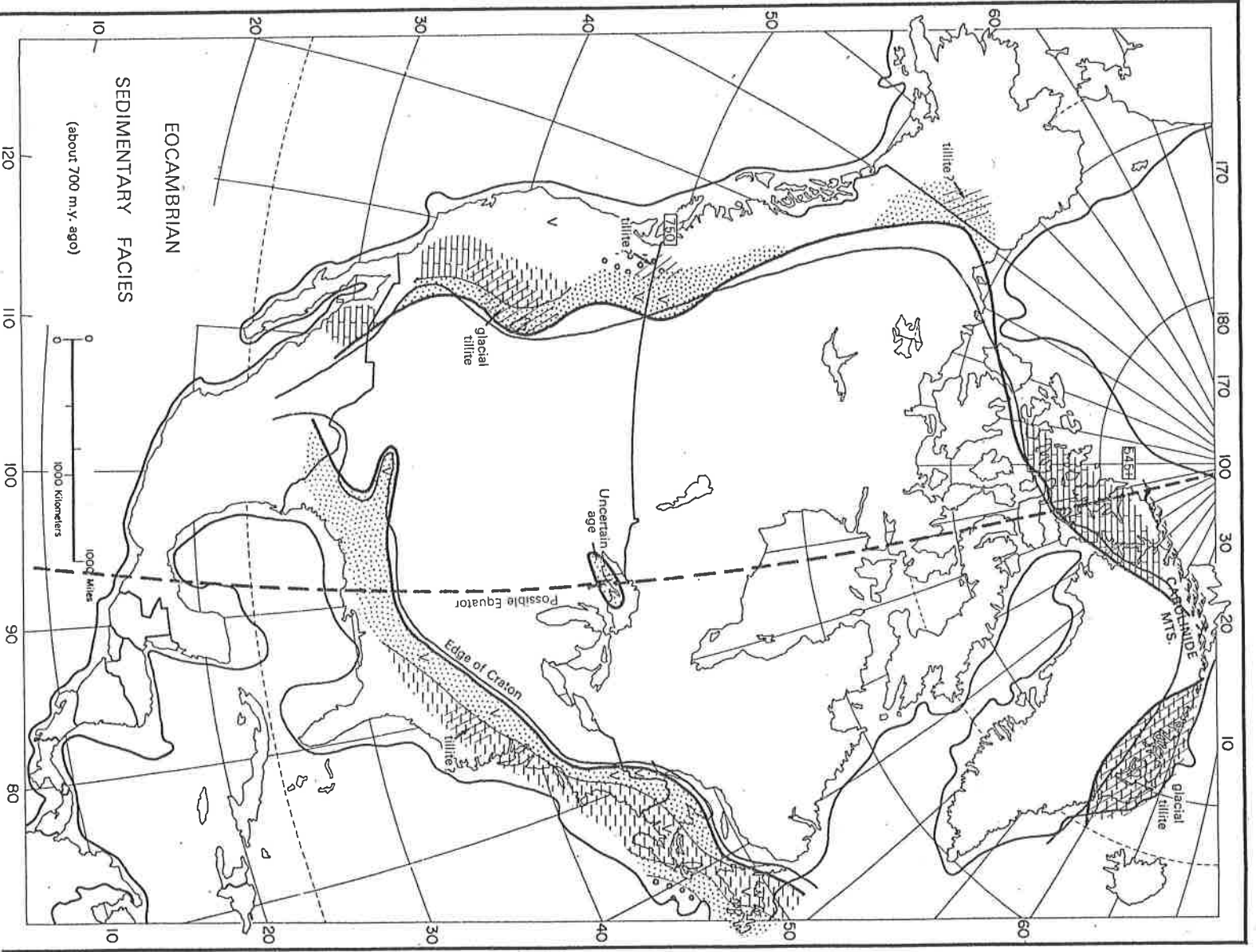


# **Evidence from the continents (other than shape)**

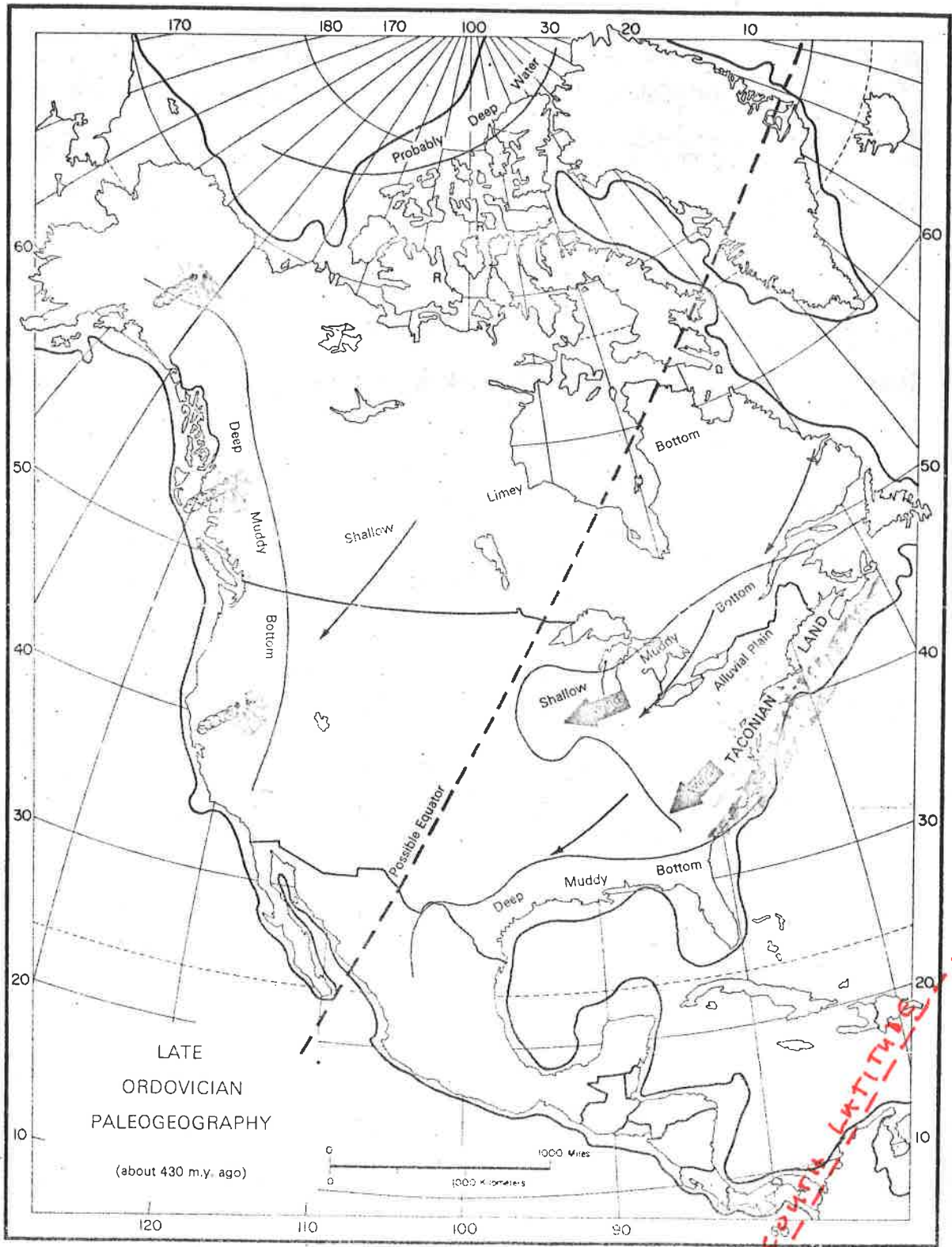
## **E. Paleomagnetic data**

### **2. Paleogeographic maps of North America**





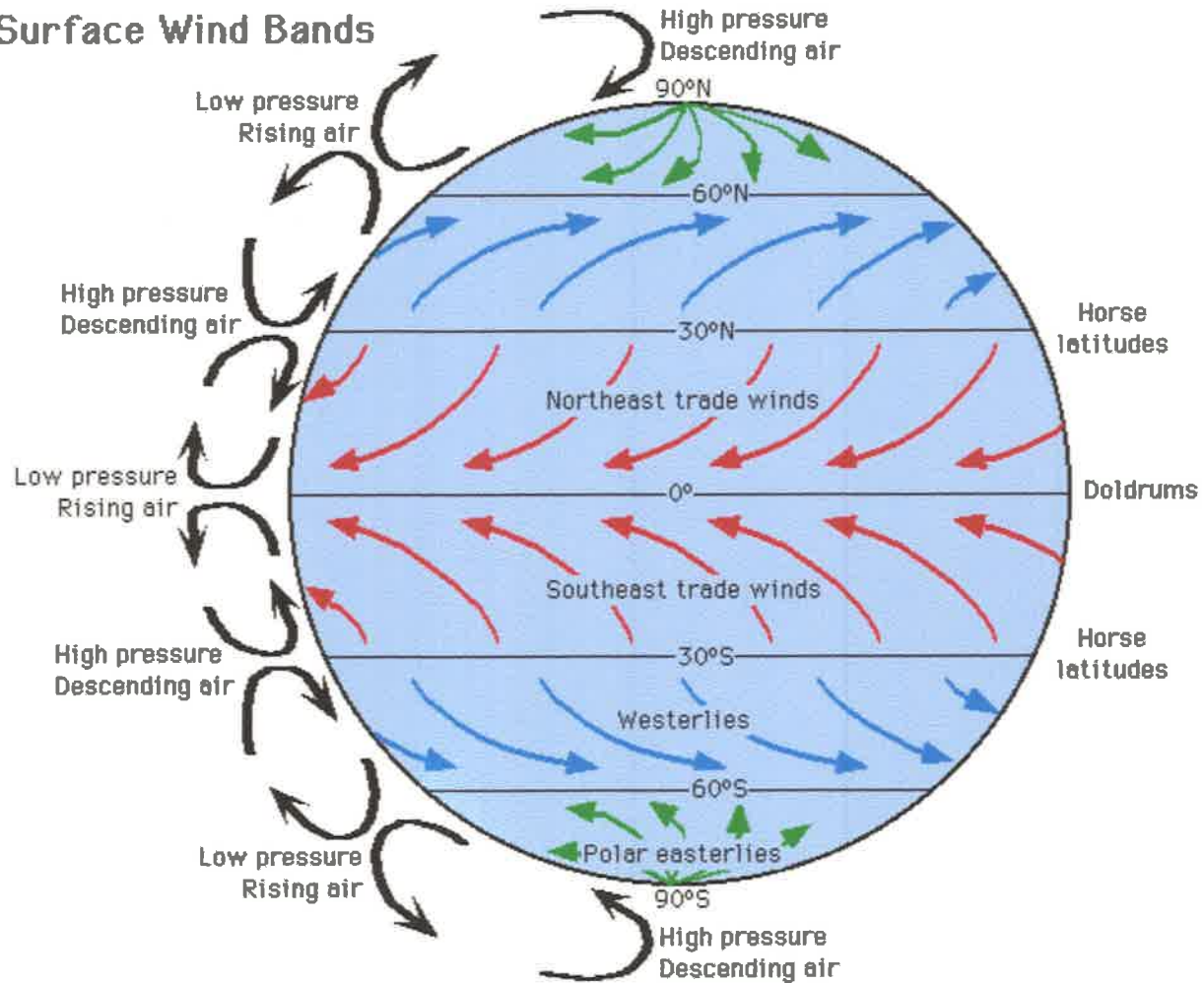




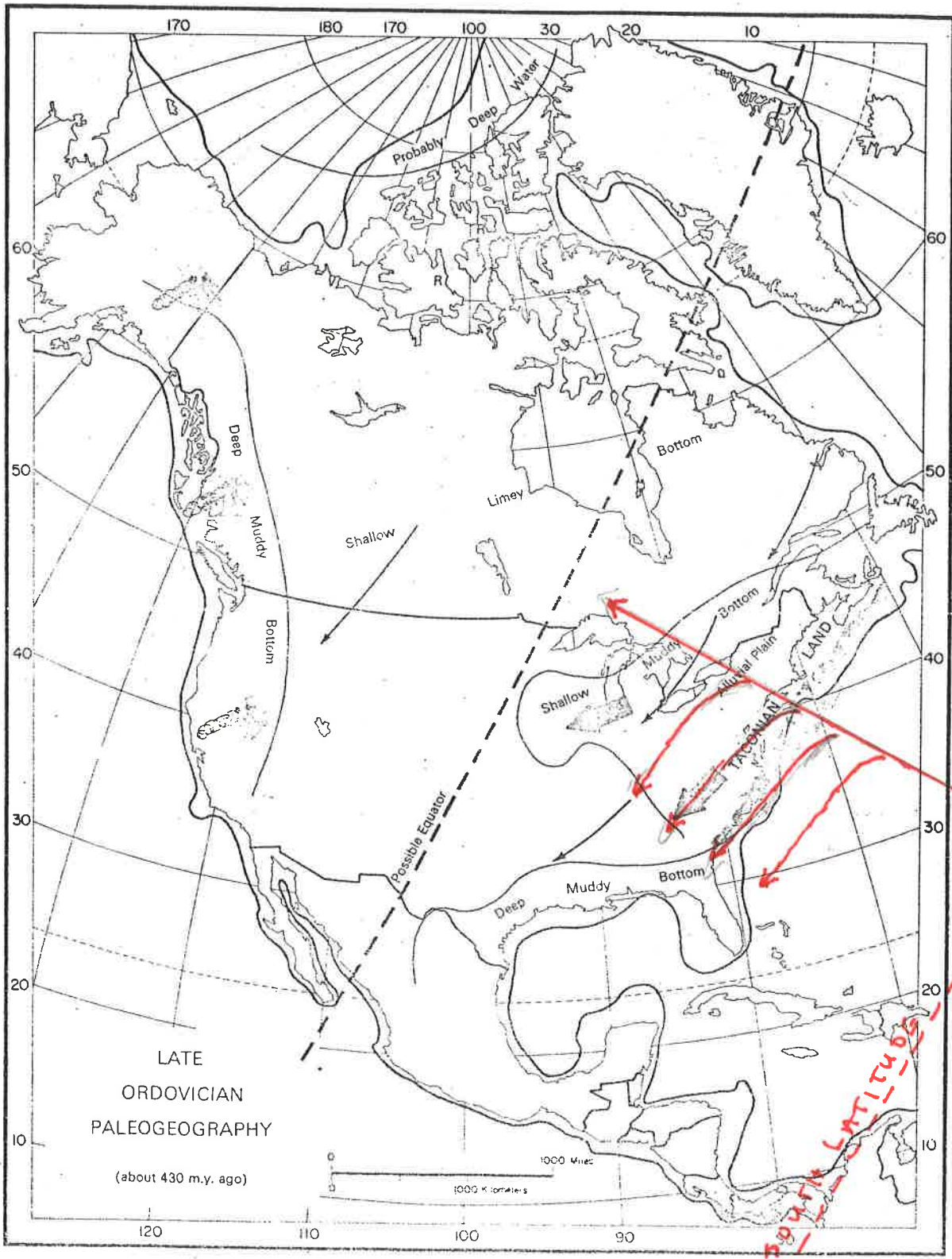
LATE  
ORDOVICIAN  
PALEOGEOGRAPHY  
(about 430 m.y. ago)

30° SOUTH LATITUDE

## Surface Wind Bands



Adapted from Duxbury, Allyn C. and Alison B. Duxbury. *An Introduction to the World's Oceans*, 4/e.  
Copyright © 1994 Wm. C. Brown Publishers, Dubuque, Iowa.



LATE  
ORDOVICIAN  
PALEOGEOGRAPHY  
(about 430 m.y. ago)

30° SOUTH LATITUDE

## **How else might the Coriolis Effect affect you:**

**1. History**

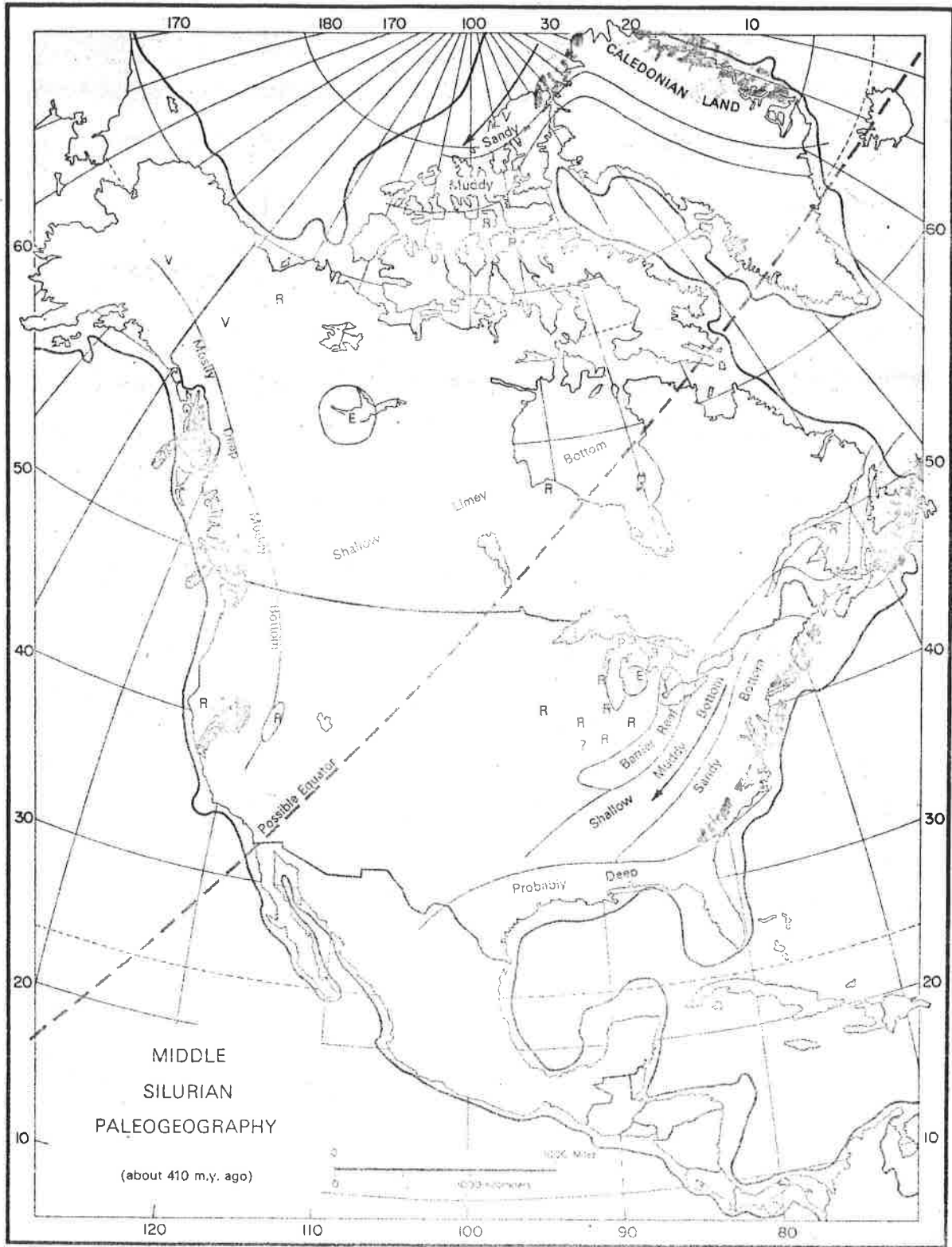
**2. Fishing**

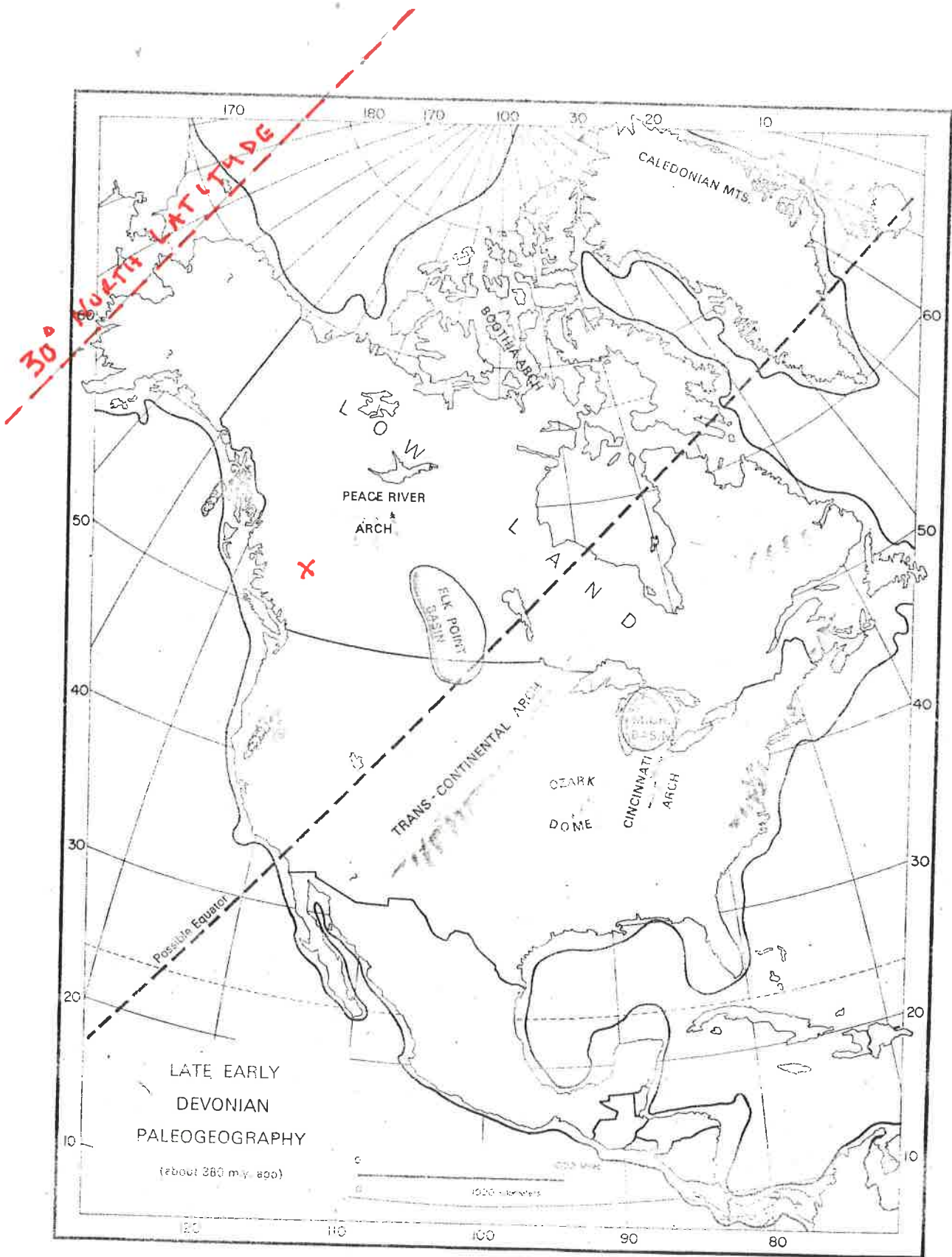
**3. Literature**

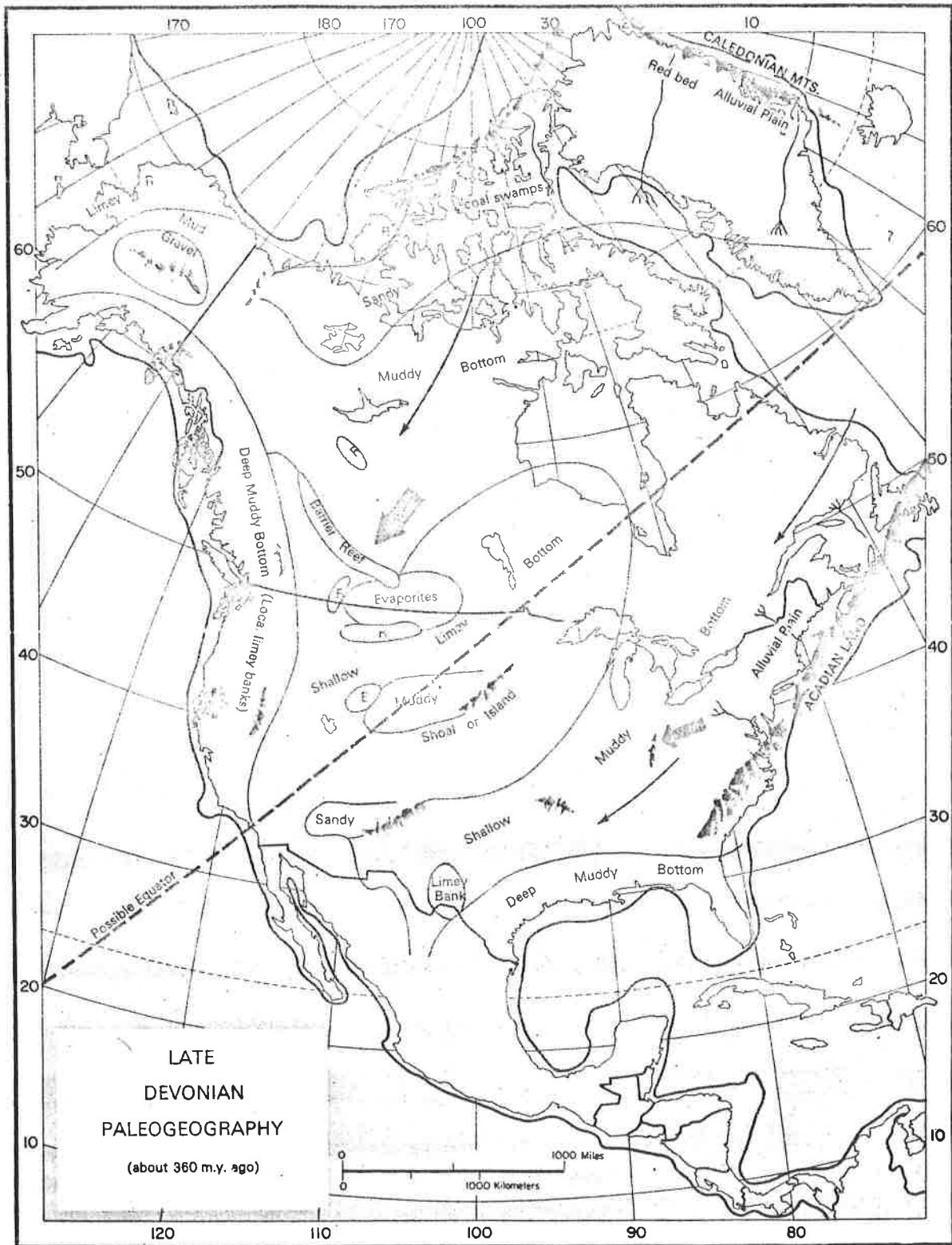
**4. Your personal hygiene**

**5. That photo of you standing with a local individual in native regalia at the Equator while on your African bus tour.**

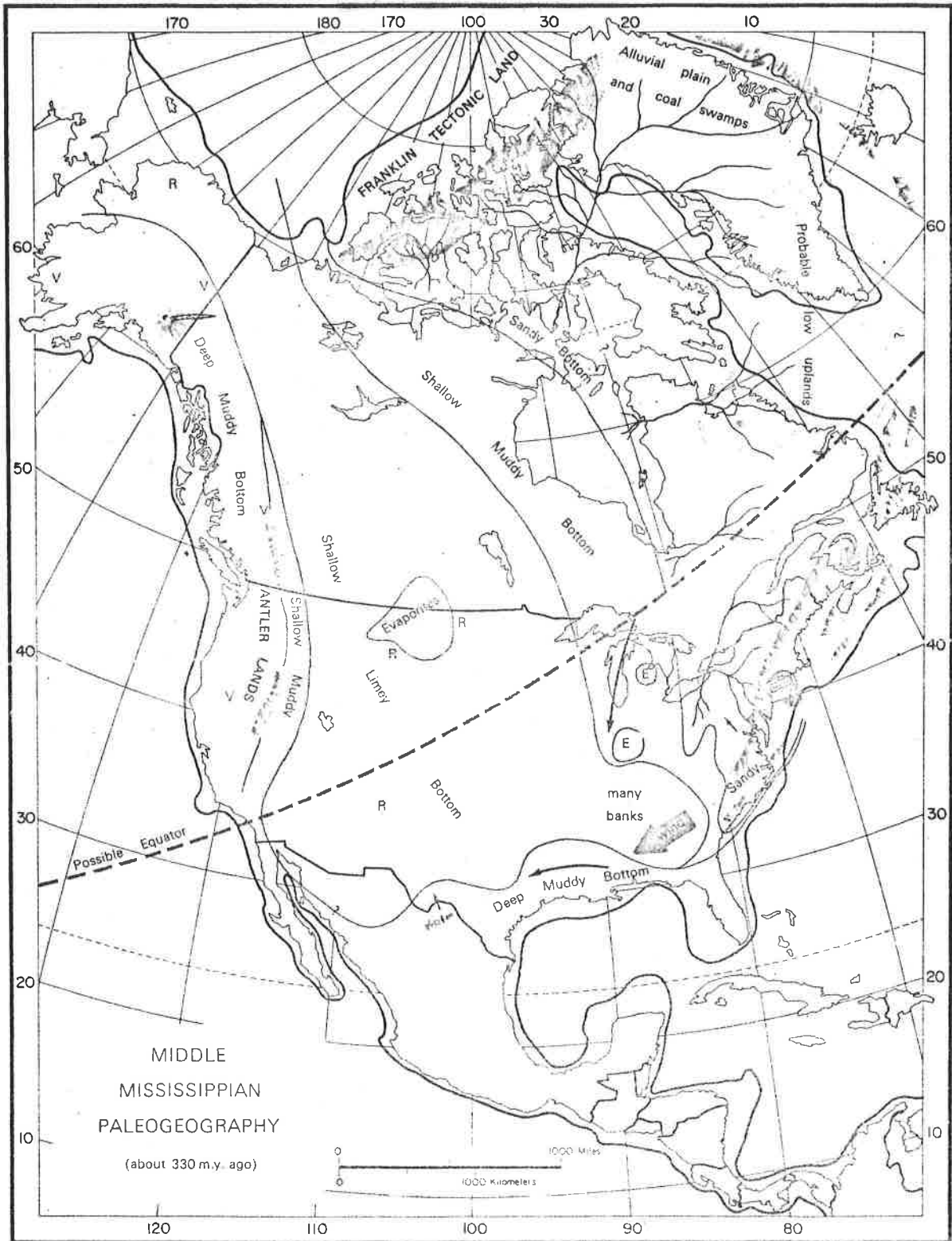


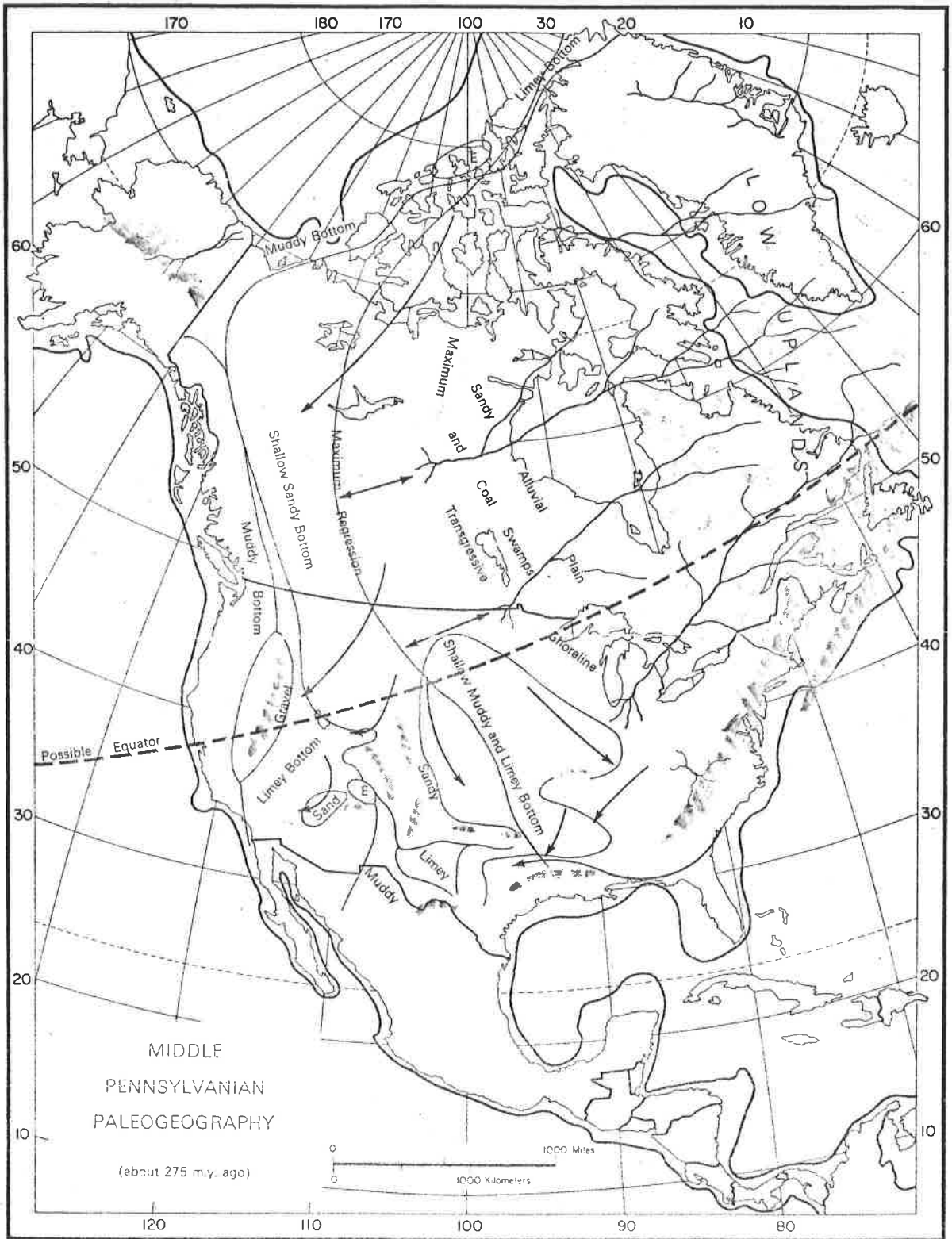


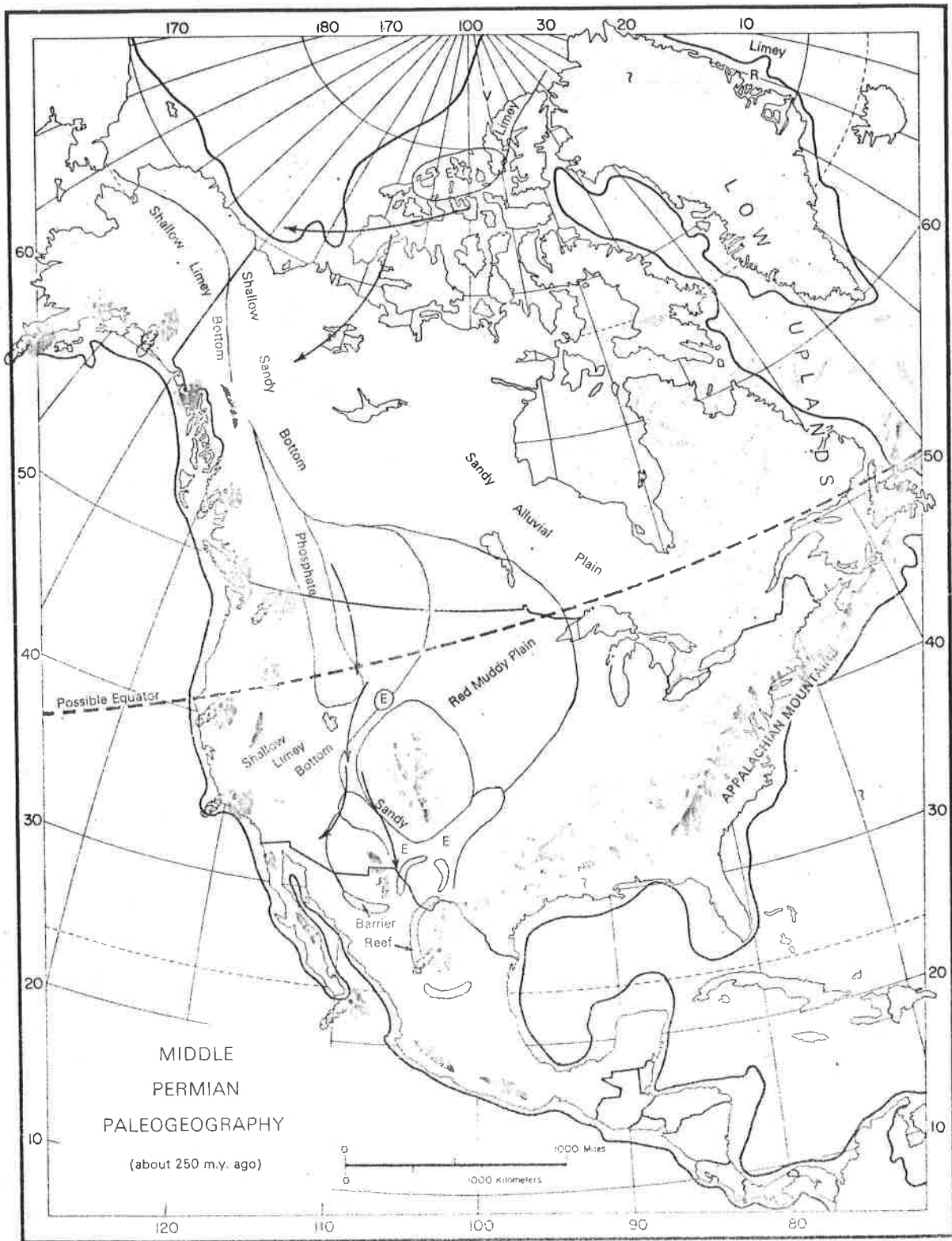


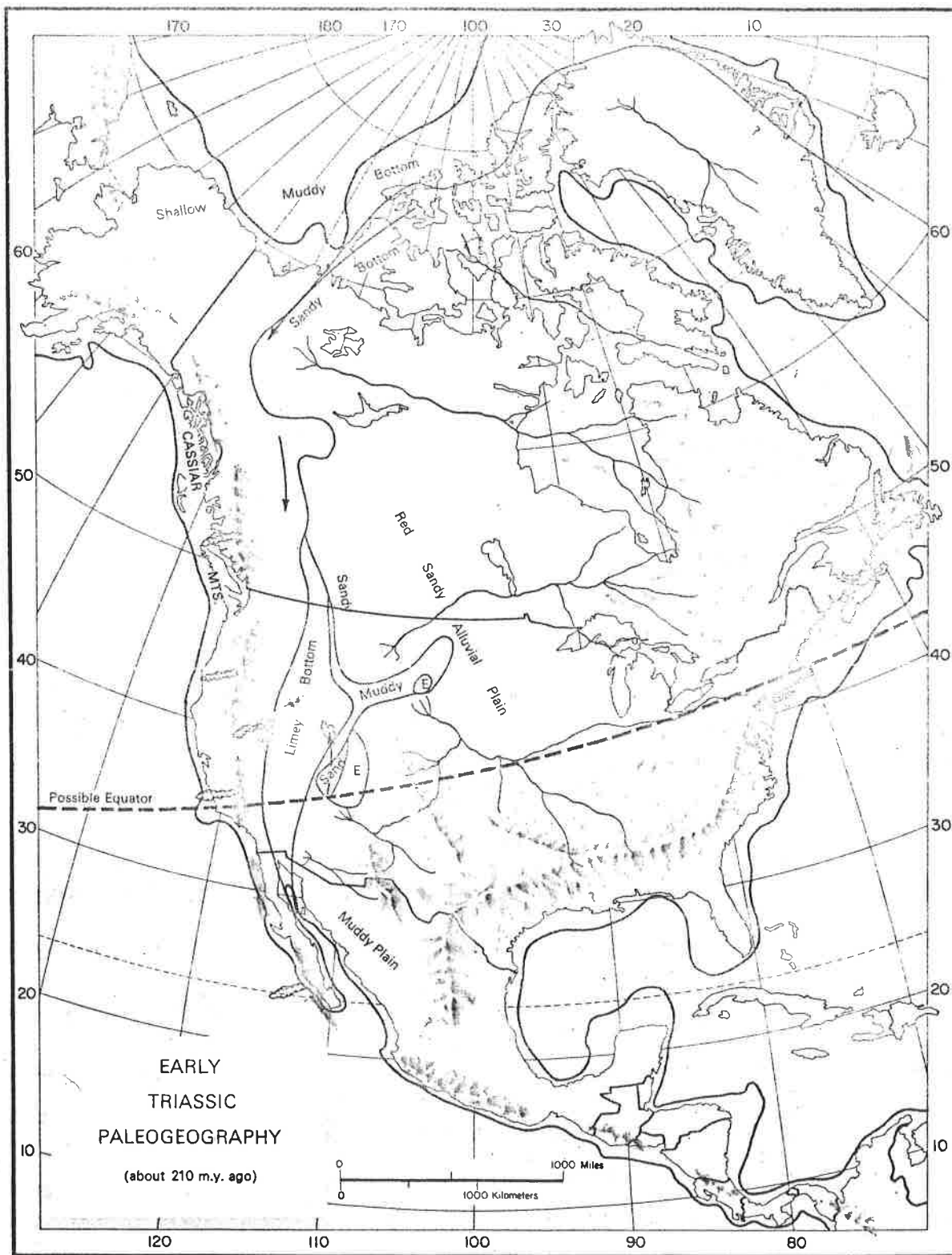


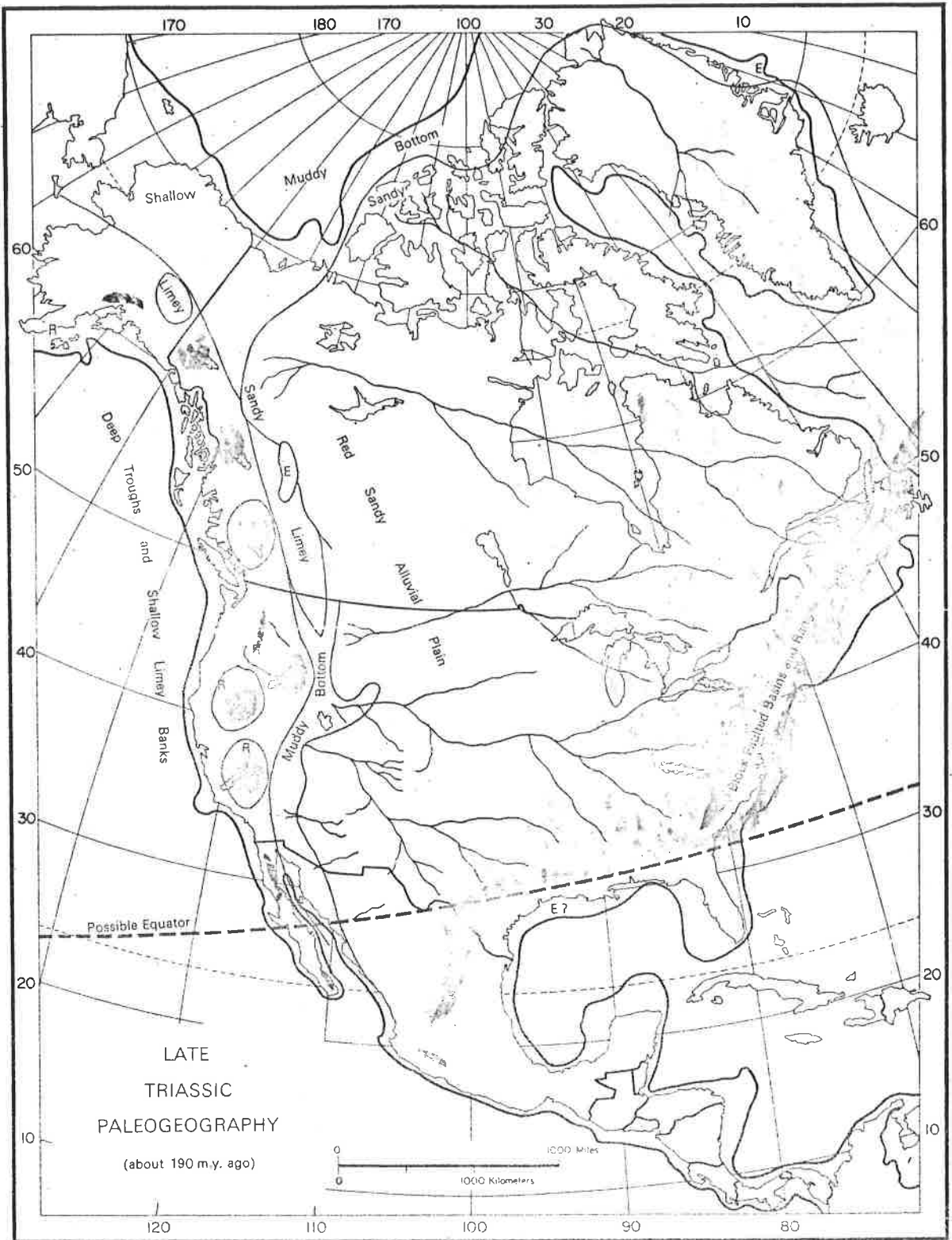
**LATE  
 DEVONIAN  
 PALEOGEOGRAPHY**  
 (about 360 m.y. ago)



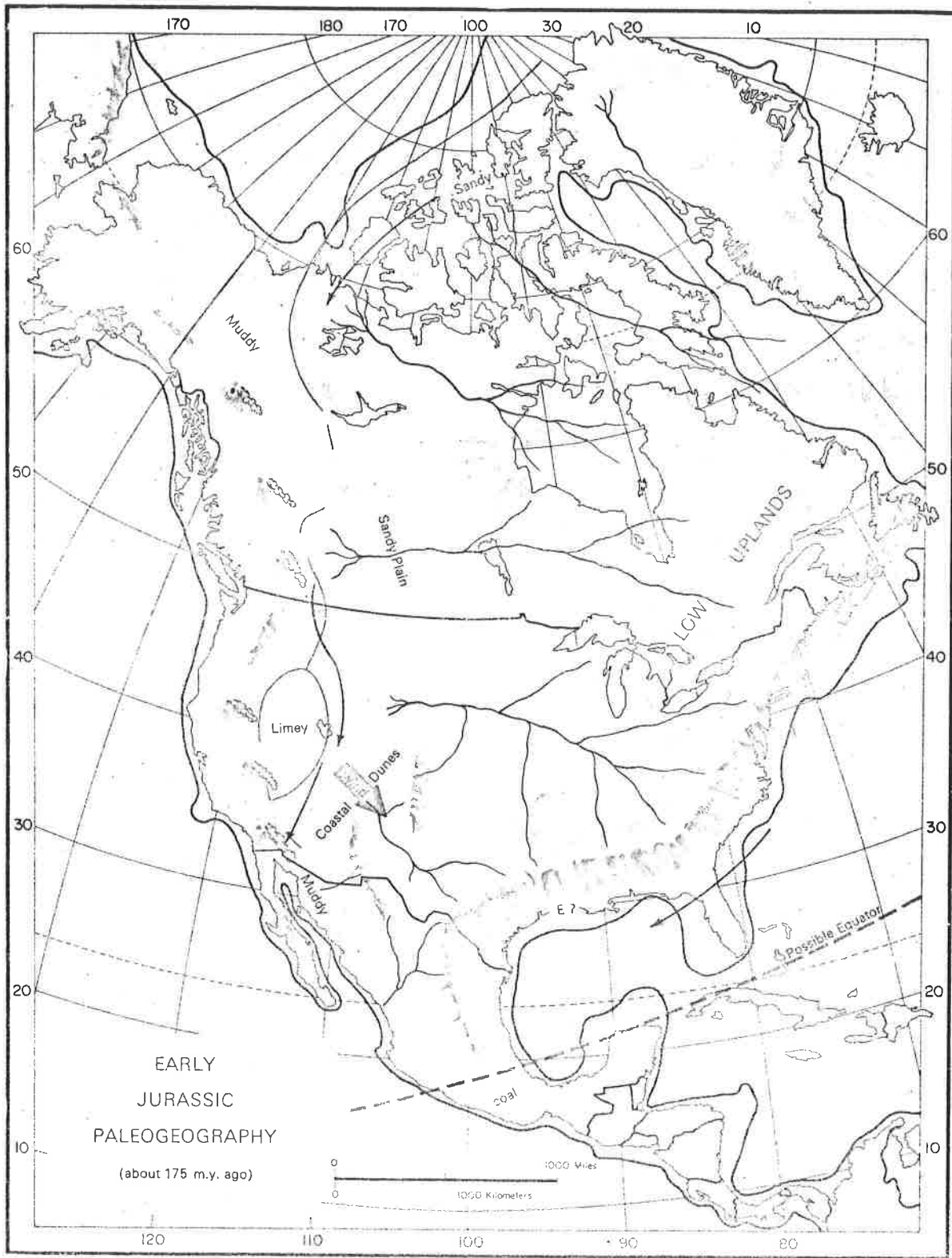




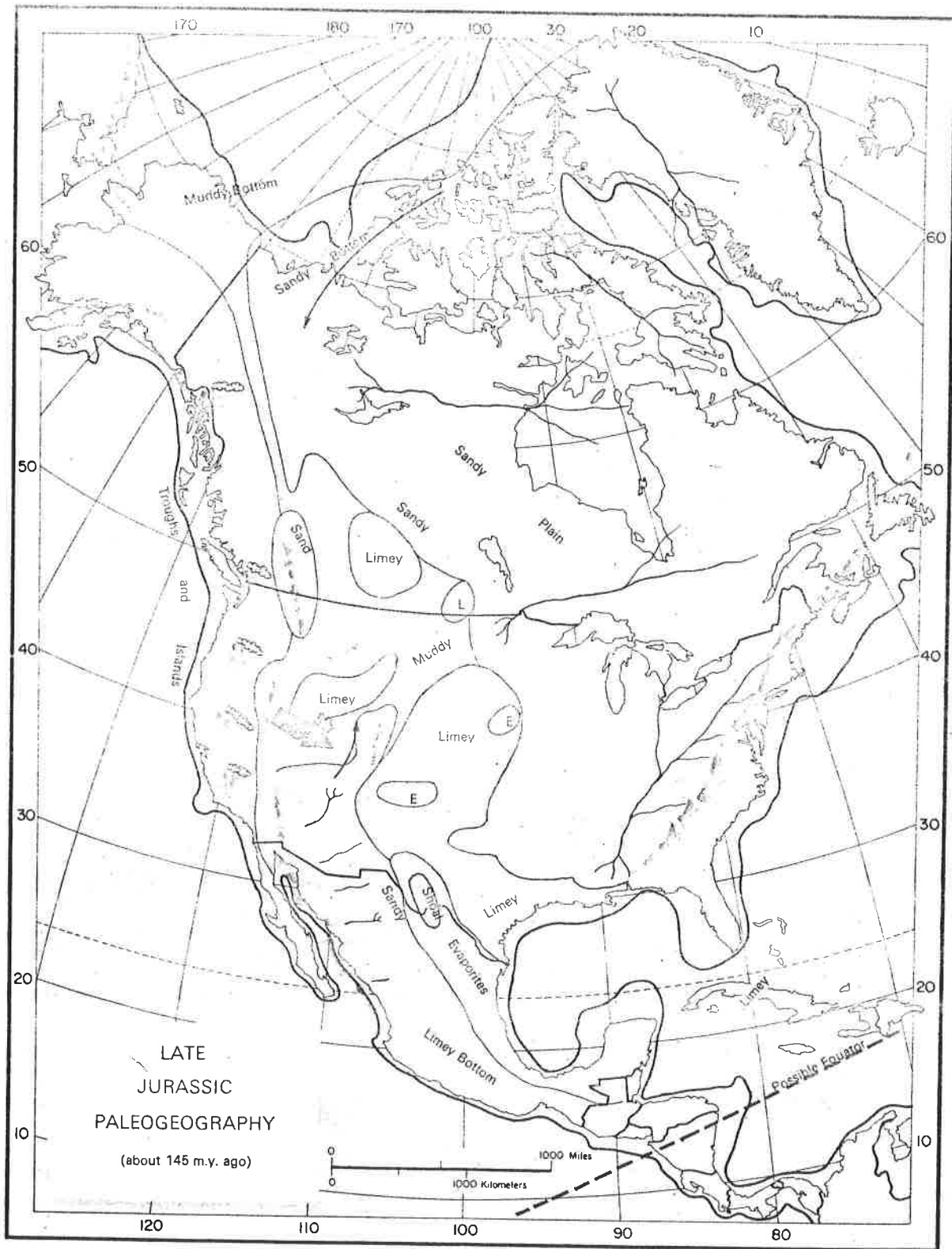


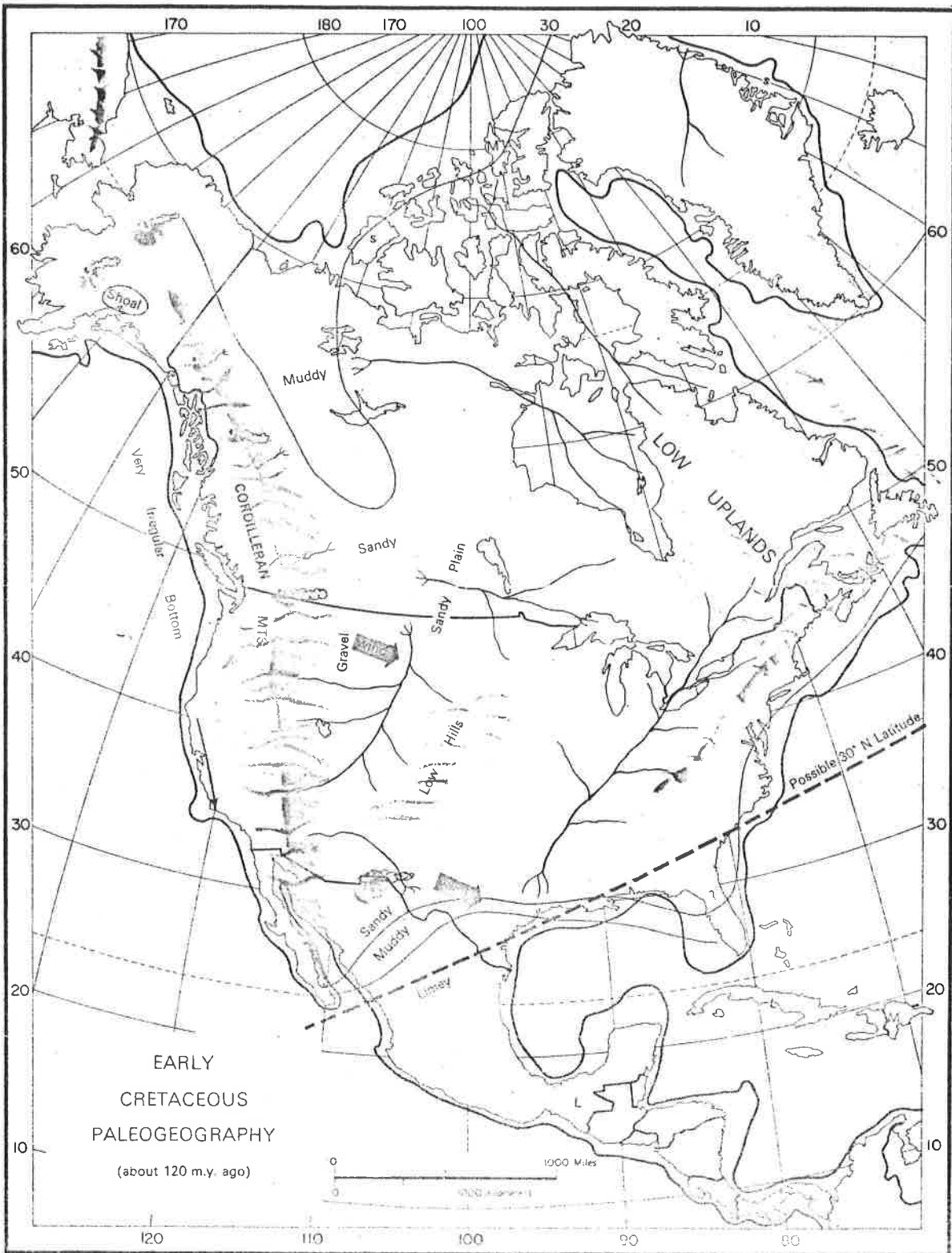




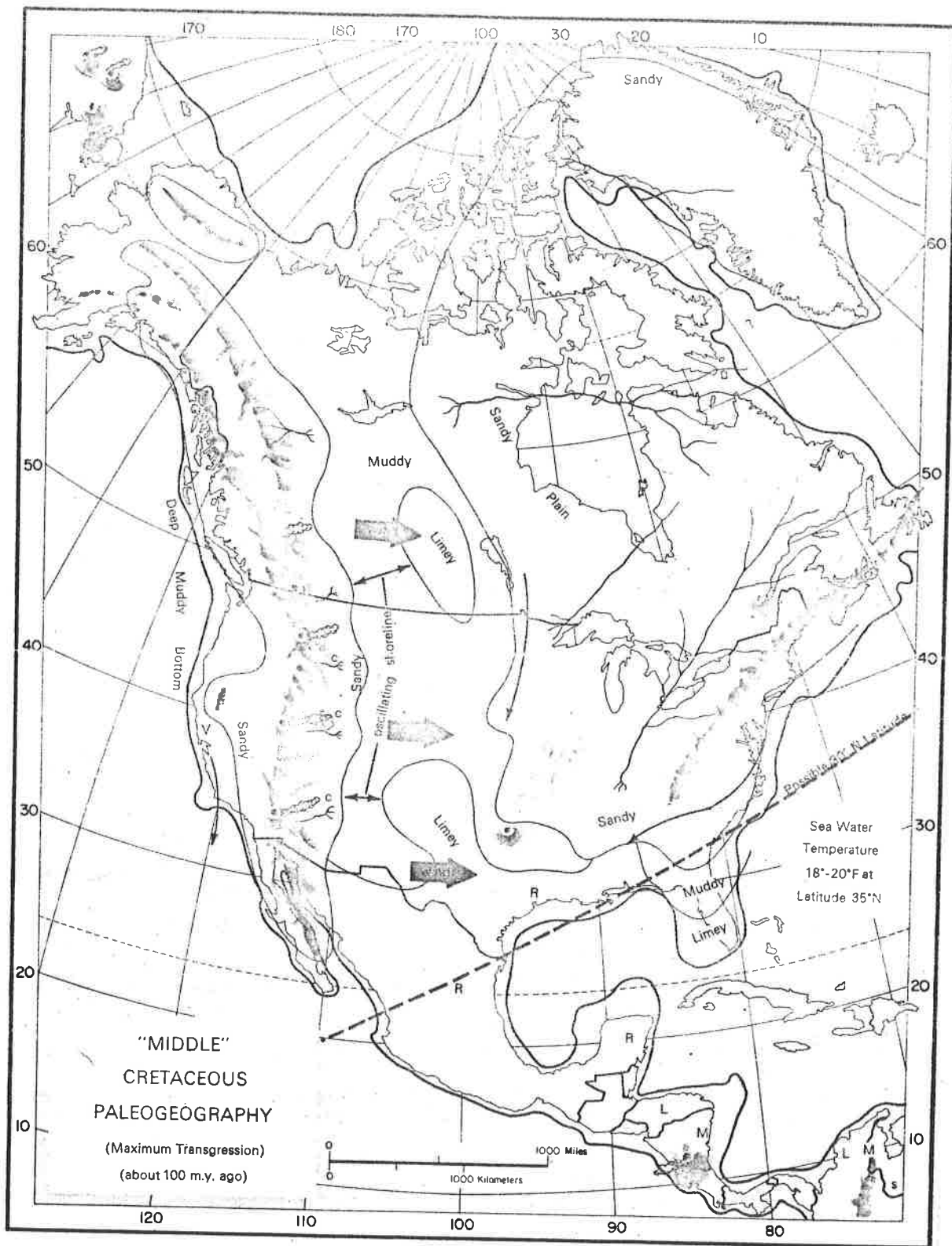


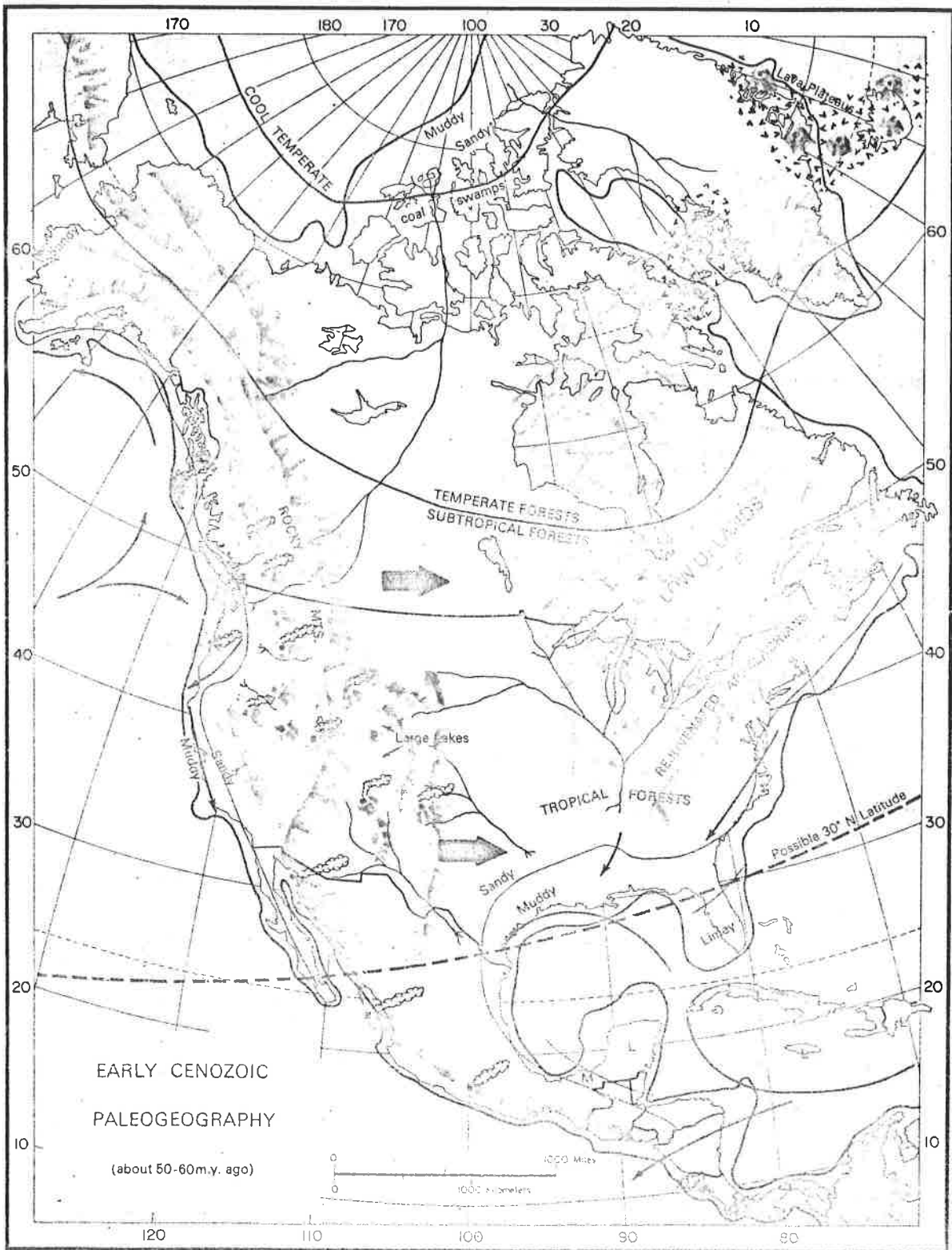
EARLY  
JURASSIC  
PALEOGEOGRAPHY  
(about 175 m.y. ago)





EARLY  
CRETACEOUS  
PALEOGEOGRAPHY  
(about 120 m.y. ago)





**For North America the ‘movement’ of the Equator is systematic. If we look at other continents, we see the same, a systematic movement. Using the current orientation of the continents and looking at the same age rocks in each continent, we see that there seems to be several magnetic north poles. If the magnetic pole is created because of the Earth rotating on its axis, then there must be several rotational poles and thus the Earth is rotating several directions at once. You thought TTU class registration was difficult!**

**If you put two continents together and look at the paleomagnetic data of the same age rocks should be the same (have the same north pole). If you put two continents together and look at the paleomagnetic date of the same age rocks and the data indicates two different north poles, then the continents have split.**

**Northern continents—split in Permo-Triassic**

**Gulf of Mexico---opened in Jurassic-  
Cretaceous**

**South Africa-Antarctica—split in Triassic-  
Jurassic**

**Indian and Atlantic Oceans---opened Mid-  
Cretaceous**

**Australia and Antarctica---split about 40 to  
50 mya (during the Eocene Epoch)**