

Wetlands in Hokkaido



Kiritappu



Kushiro mire



Sarobetu mire



Bekanbeushi mire

Change in distribution of wetlands in Hokkaido

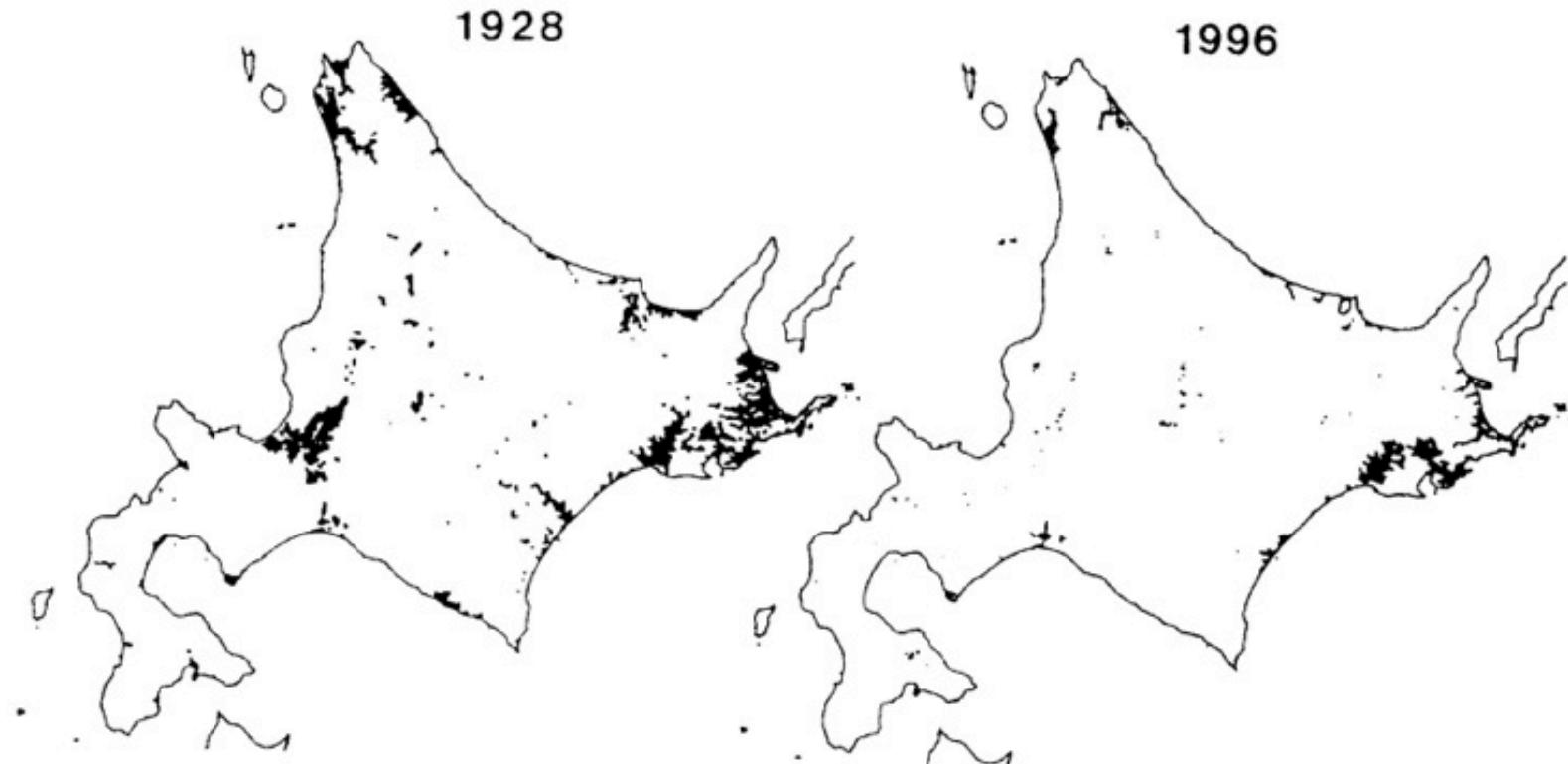


図 V-2-1 北海道の湿原分布の変化（富士田 1997）

ca. 200,000 ha



ca. 60,000 ha (30 %)

Sarobetsu mire





Mt. Rishiri-Fuji beyond the sea



Kushiro mire from Hosooka
observatory



Kiritappu mire from Biwase observatory



Oikamanai mire in Tokachi



Horokayanto mire in Tokachi

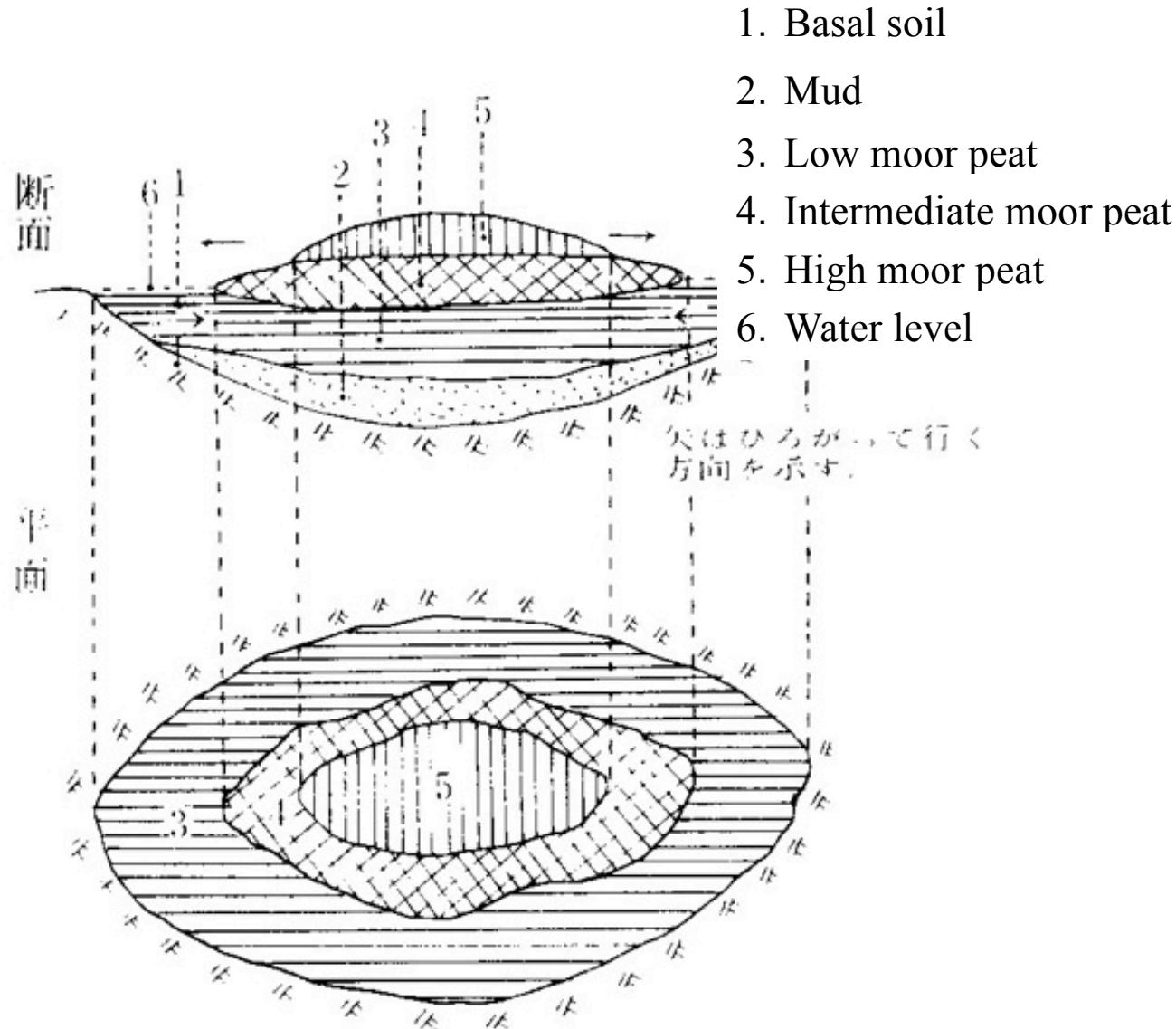


High moor and low moor profiles
(both in grassland)

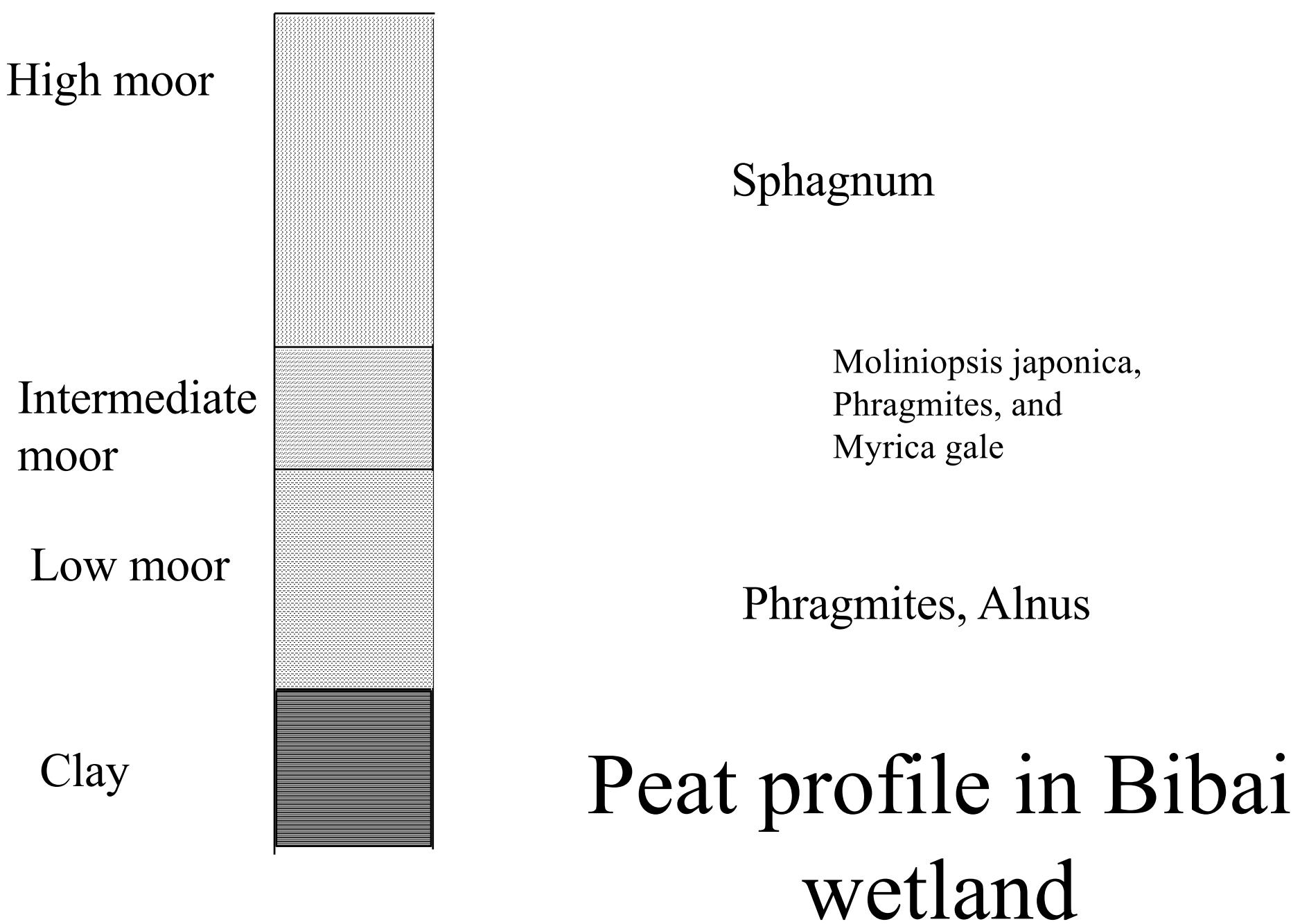


第3図 上サロベツ原野

Distribution of high,
intermediate, and
low moor in
Sarobetsu mire



Formation of peatland





エゾイソツツジ

Ledum palustre
ssp. diversipilosum

ヤチヤナギ *Myrica gale*

ガンコウラン *Empetraceae*

ヒメシャクナゲ

Andromeda polifolia

Plants in Sarobetsu mire



ショウジョウバカマとワタスゲ

Heloniopsis orientalis and *Eriophorum vaginatum* L.



ツルコケモモ *Oxicoccus quadripetalus*
ガンコウラン *Empetrum nigrum var. japonicum*



ヤチヤナギ *Myrica gale*
キスゲ *Hemerocallis flava* var. *yedoensis*



ワタスゲ *Eriophorum*
vaginatum L.



キスゲ *Hemerocallis flava* var. *yedoensis*



Lowpeat profile in Mukawa



Drying excavated peat for
agricultural use



Bibai mire

Bibai mire



Peatland plants



ヤチヤナギ *Myrica gale*



ヤマウルシ *Rhus trichocarpa*



チマキザサ
Sasa palmata



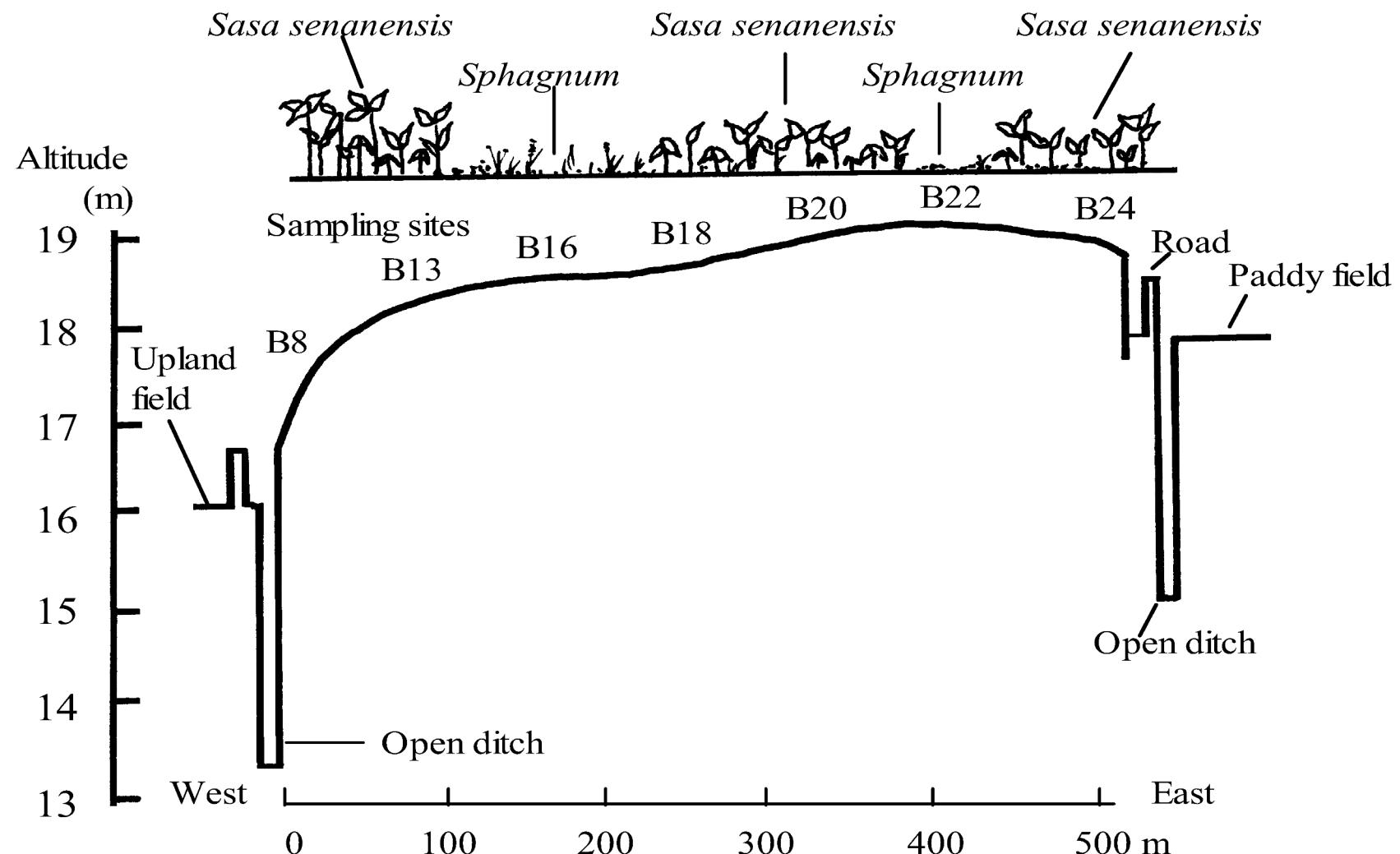
スゲ
Carex

Peatland plants (*Sphagnum*)



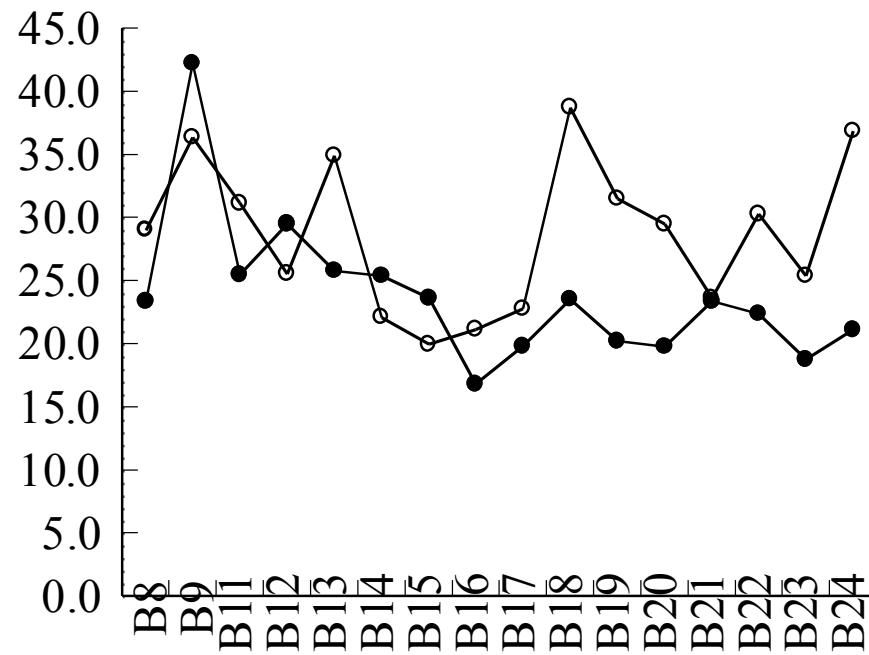


Peat profile in Bibai mire (turned to bush due to lowering of ground water level)

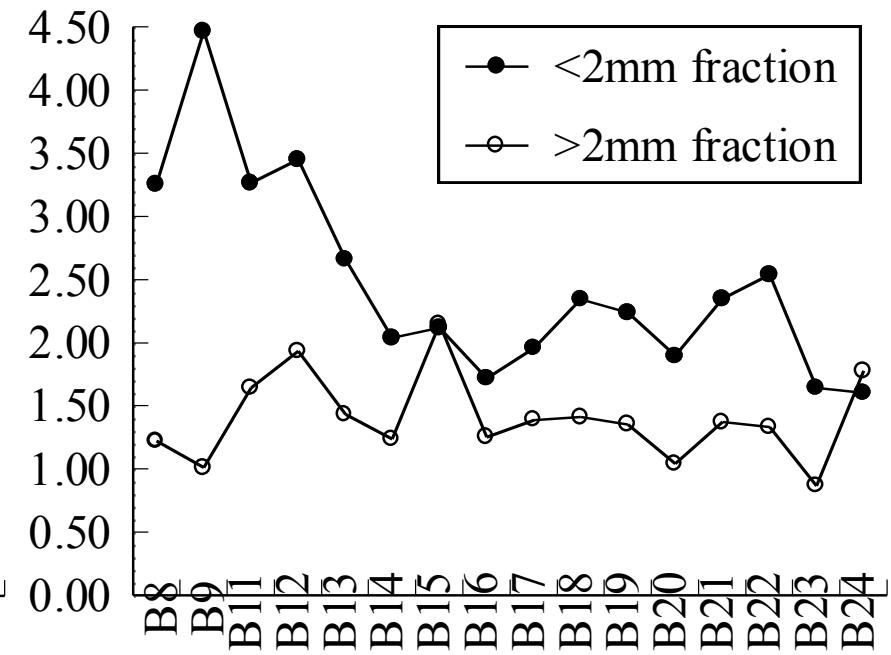


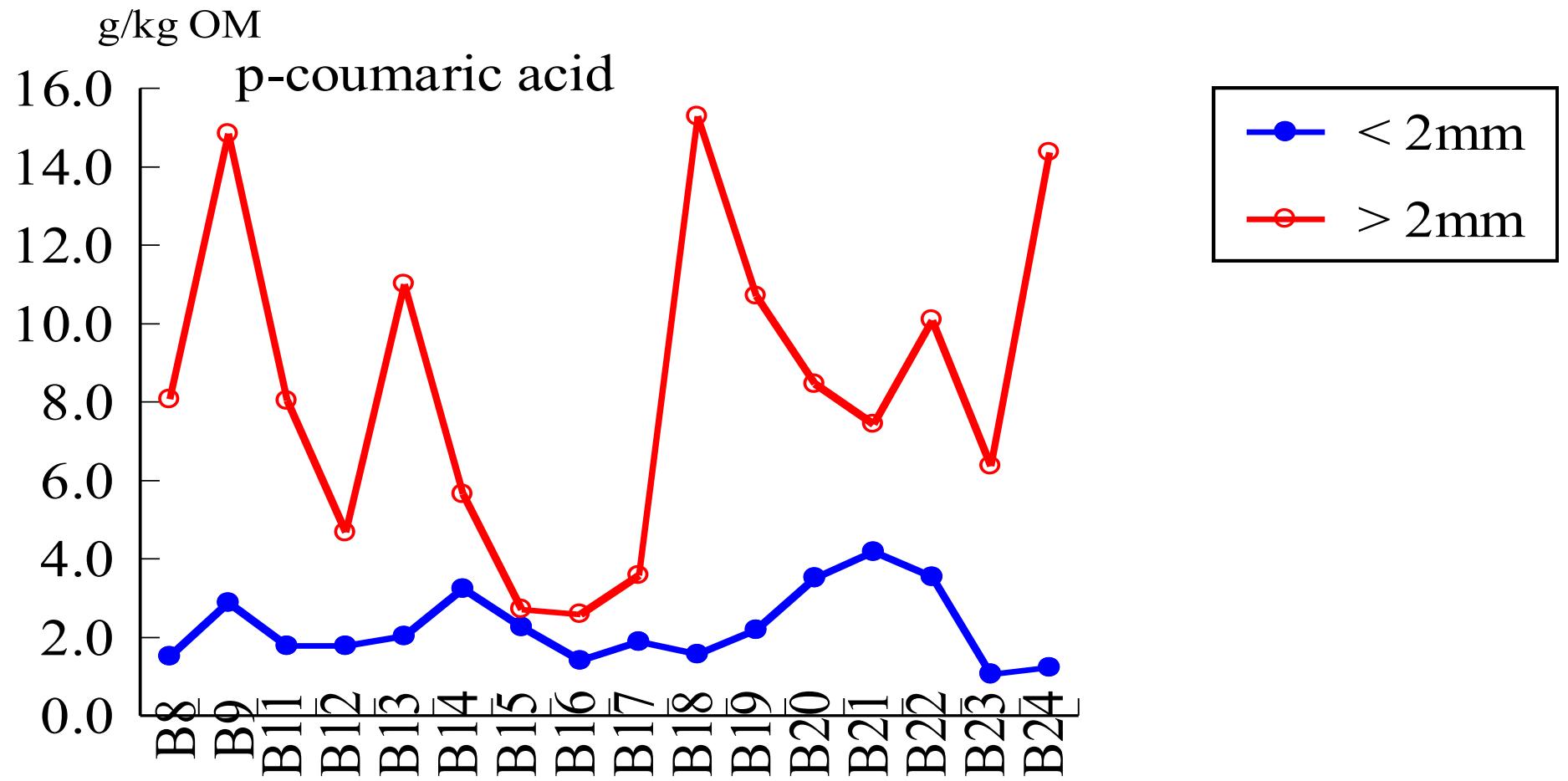
Transect of Bibai mire

Total phenolic acid



Total fatty acid





Yield of p-coumaric acid from peat

Summary

- Volcanic ash in Tokachi records the life of people for more than 20,000 years.
- Hills in Kamikawa area are beautiful, but the agricultural practice is difficult due to land shapes and heavy clay soils. Mud flow also damaged the land.
- Major soils in Hokkaido are characterized by three types of special problem soils.
- Wetlands in Hokkaido is a treasure box for wild lifes, but the area is decreasing.