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The stratigraphy of the Ban Pa Kha subbasin

Unit	Period	Lithology
Overburden	Quaternary	Gravels & coarse sandstone
Upper coal seam	Miocene	Shale, claystone, & sandstone
Interburden	Miocene	Coal & claystone
Interburden	Miocene	Coaly shale, coal, & claystone
Interburden	Miocene	Oily shale, claystone, & sandstone
Lower coal seam	Late Oligocene to Early Miocene	Coal
Lower coal seam	Late Oligocene to Early Miocene	Coal & claystone with contortion
Underburden	Late Oligocene to Early Miocene	Gravels & coarse sandstone

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The occurrence of sporomorph from the Ban Pa Kha palynoflora

59 sporomorph taxa

- 5 Pteridophyte spore
- 7 Gymnosperm pollen
- 39 Angiosperm pollen
- 8 Unidentified taxa

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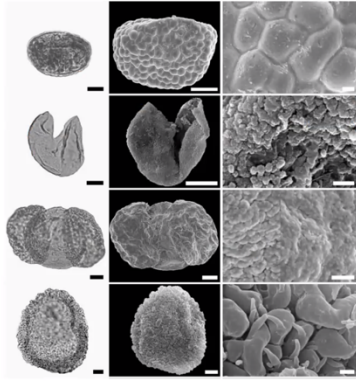
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The occurrence of sporomorph from the Ban Pa Kha palynoflora

Common sporomorph taxa in Ban Pa Kha subbasin



- Polypodiaceae gen. et spec. indet.
- Cupressaceae gen. et spec. indet.
- Pinus* sp.
- Tsuga* sp.

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Higher taxonomic resolution taxa

2 subgenera from genus *Pinus*

Pollen of *Pinus*
(Songtham, 2003; 2005)

subg. *Pinus*

subg. *Strobus*

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The palaeoclimate of Ban Pa Kha

Previous account on macrofossils

Subtropical climate in Ban Pa Kha

Mangifera paleocaloneura
(Sawangchote et al., 2009)

The modern distribution of
genus *Mangifera*

The climate-vegetation map

19

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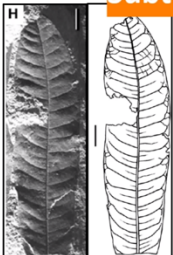
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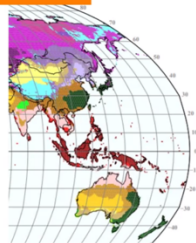
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johannesbouchal

johannesbouchal

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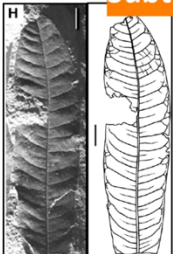
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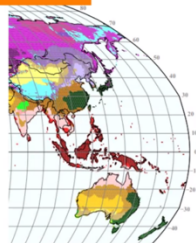
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Paranchai Malaikanok

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