

Geology and Geomorphology of BORNEO

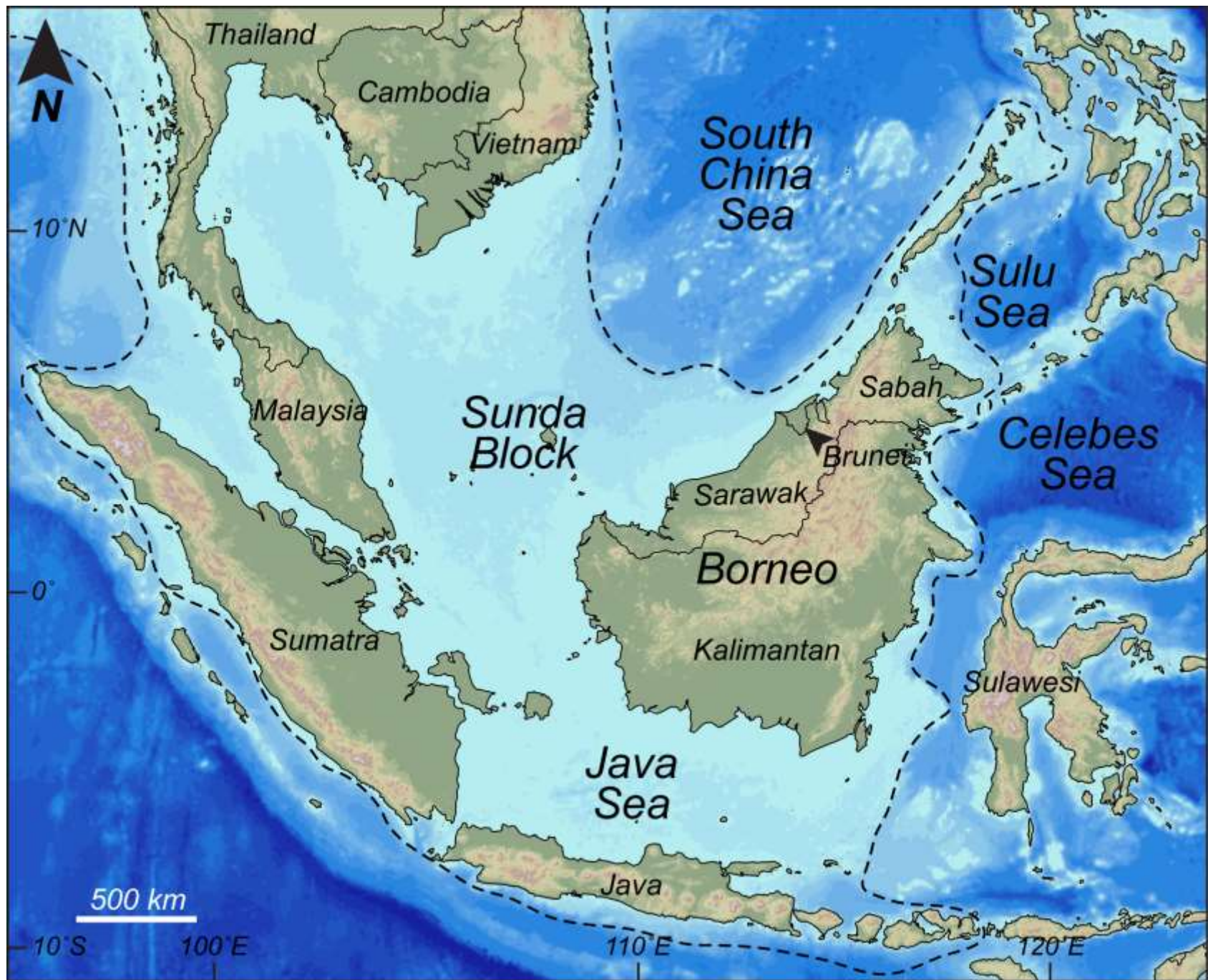
Manoj Mathew
David Menier

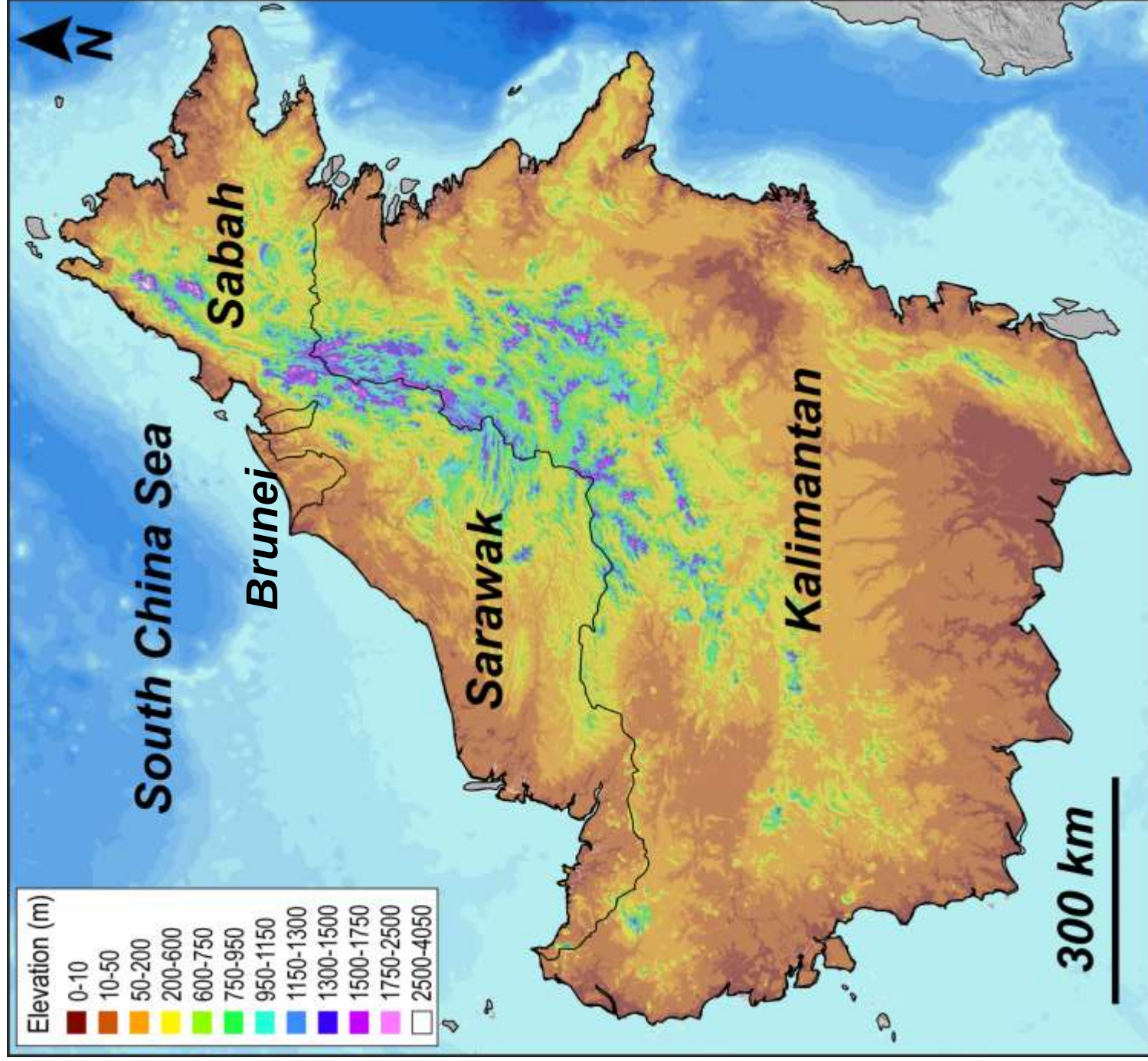
Articles associés :

Menier D., Mathew J., Pubellier M., Sapin F., Delcaillau B., Siddiqui N., Ramkumar Mu, Santosh, M., **2017**. Landscape response to progressive tectonic and climatic forcing in NW Borneo: Implications for geological and geomorphic controls on flood hazard. (*Scientific Reports*). 7: 457. DOI : [10.1038/s41598-017-00620-y](https://doi.org/10.1038/s41598-017-00620-y)

Mathew M. J., Menier D., Siddiqui N., Ramkumar M., Santosh M., Kumar S., Hassaan M., **2016**. Drainage Basin and Topographic Analysis of a Tropical Landscape: Insights into Surface and Tectonic Processes in northern Borneo. (*Journal of Asian Earth Sciences*). 124, 14-27. DOI : [10.1016/j.jseaes.2016.04.016](https://doi.org/10.1016/j.jseaes.2016.04.016)

Mathew M. J., Menier D., Siddiqui N., Kumar S., Authemayou C., **2016**. Active Tectonic deformation along rejuvenated Faults in Tropical Borneo: Inferences obtained from tectono-geomorphic Evaluation. (*Geomorphology*). 267, 1-15. DOI : [10.1016/j.geomorph.2016.05.016](https://doi.org/10.1016/j.geomorph.2016.05.016)





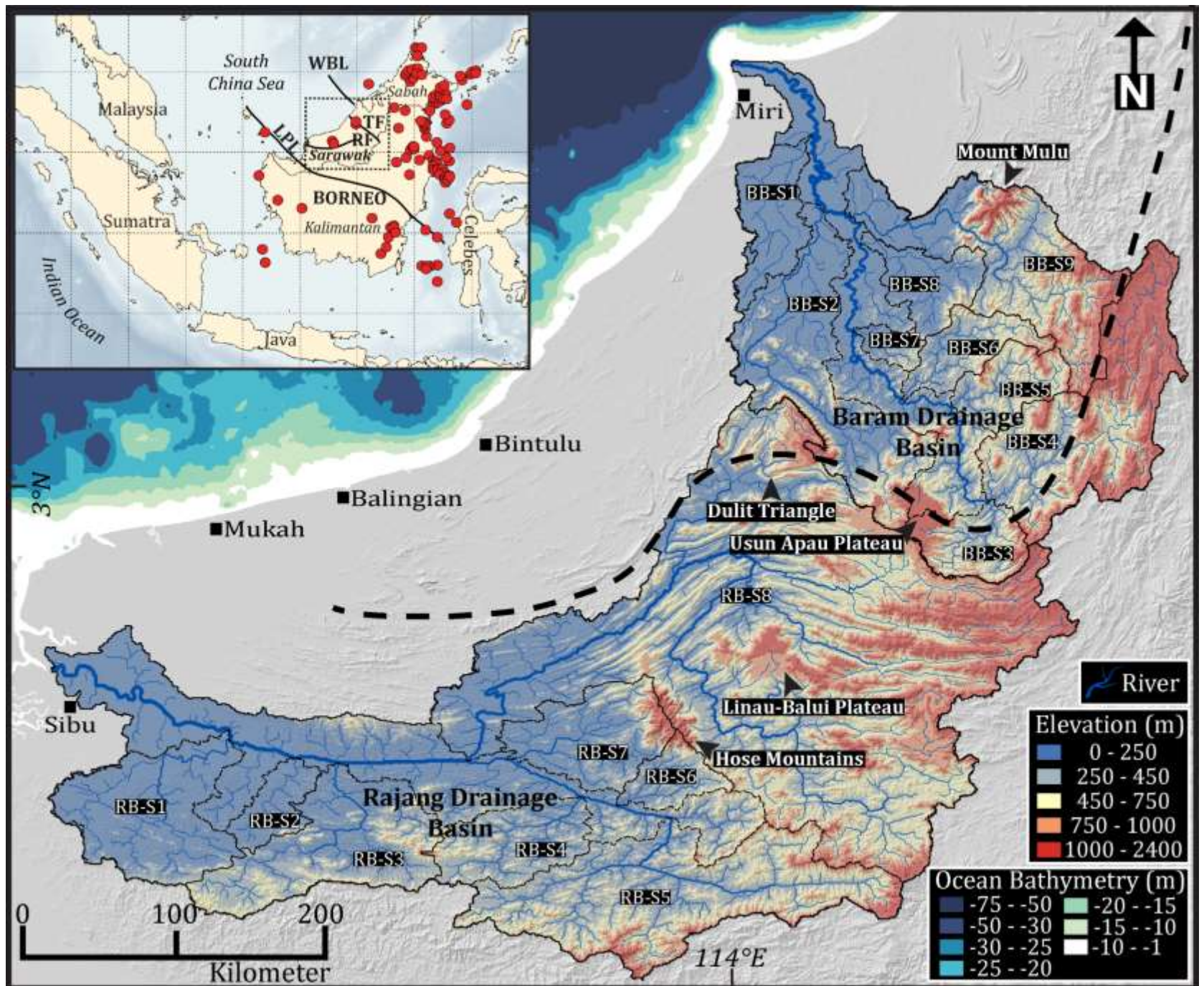


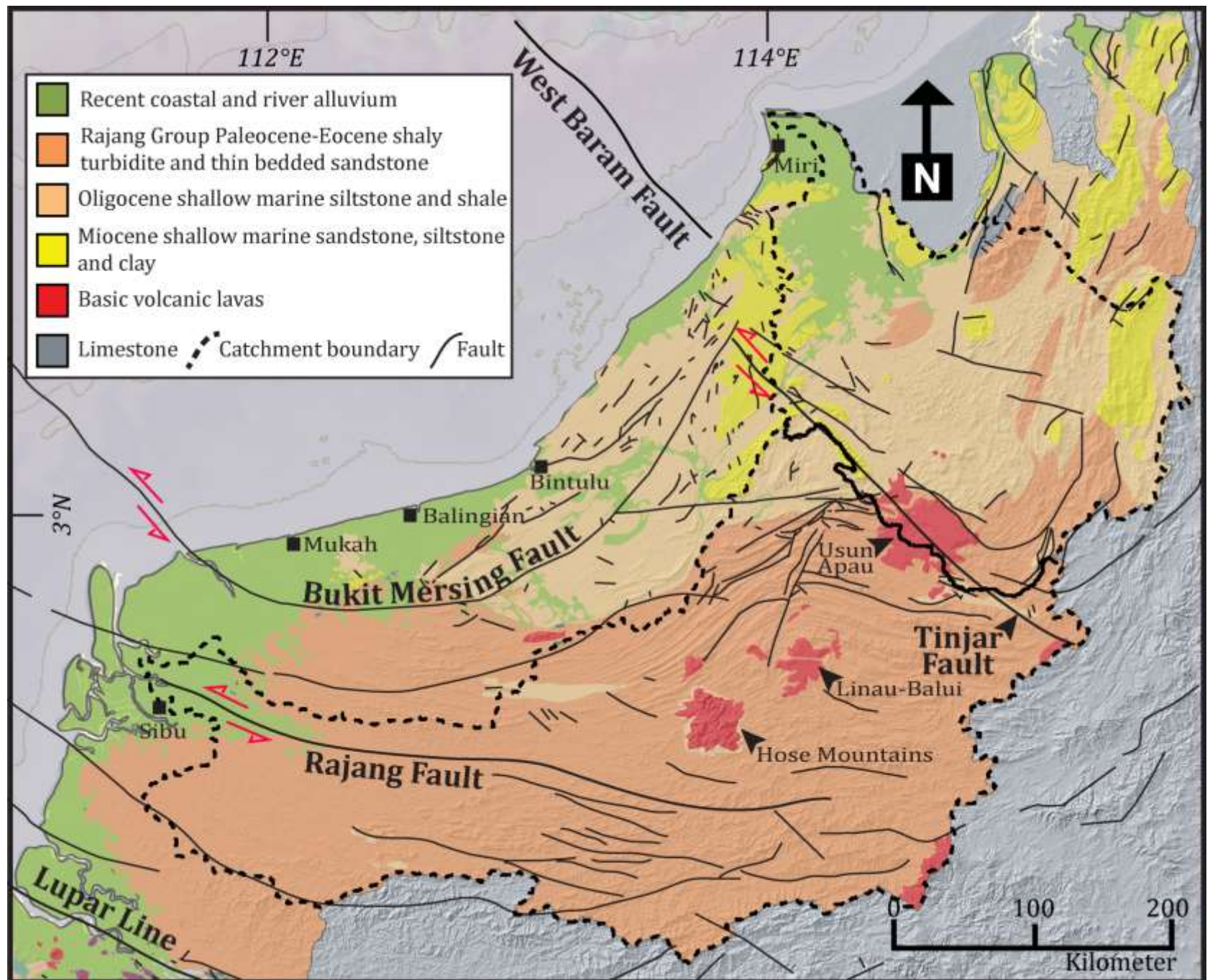


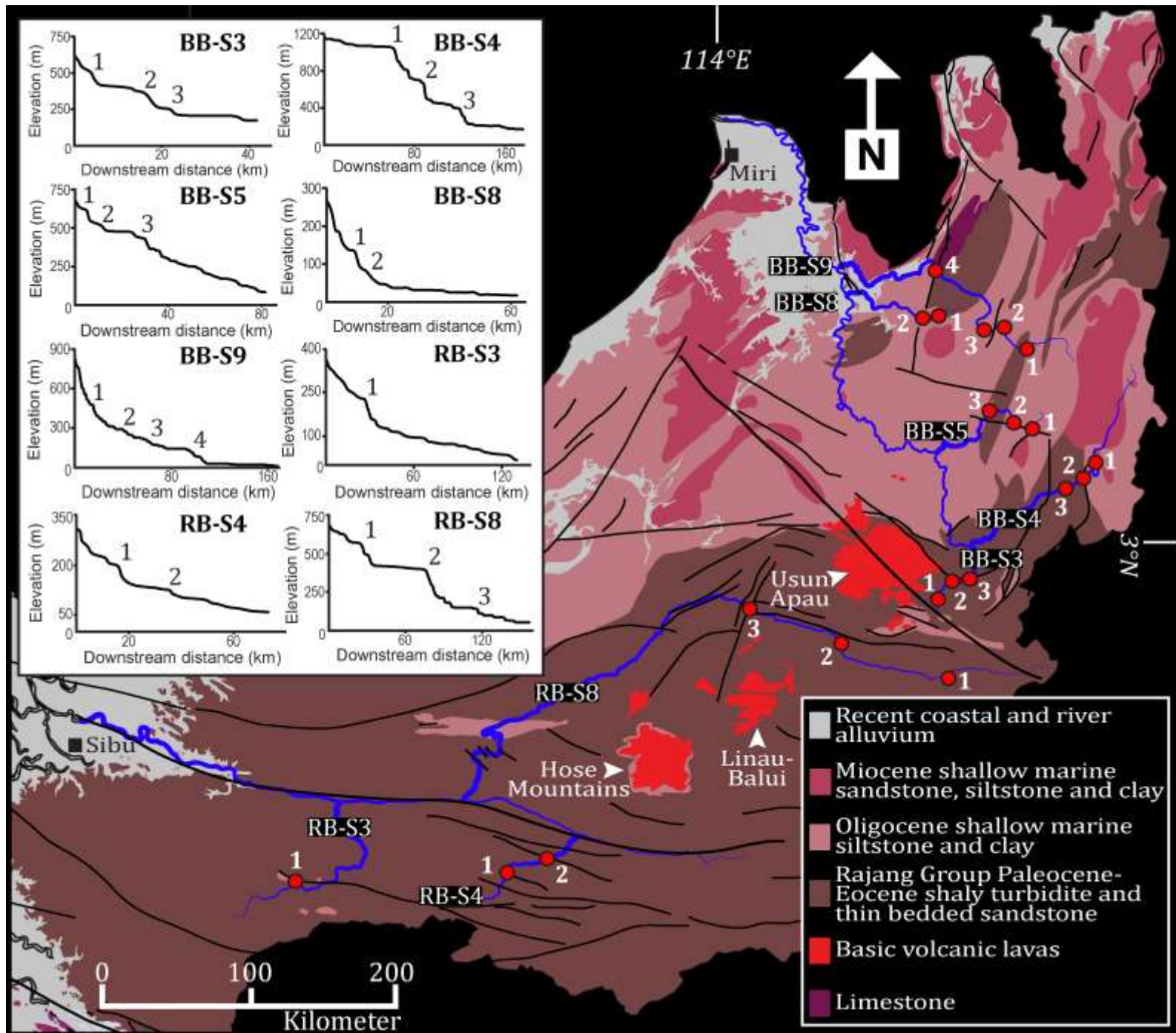


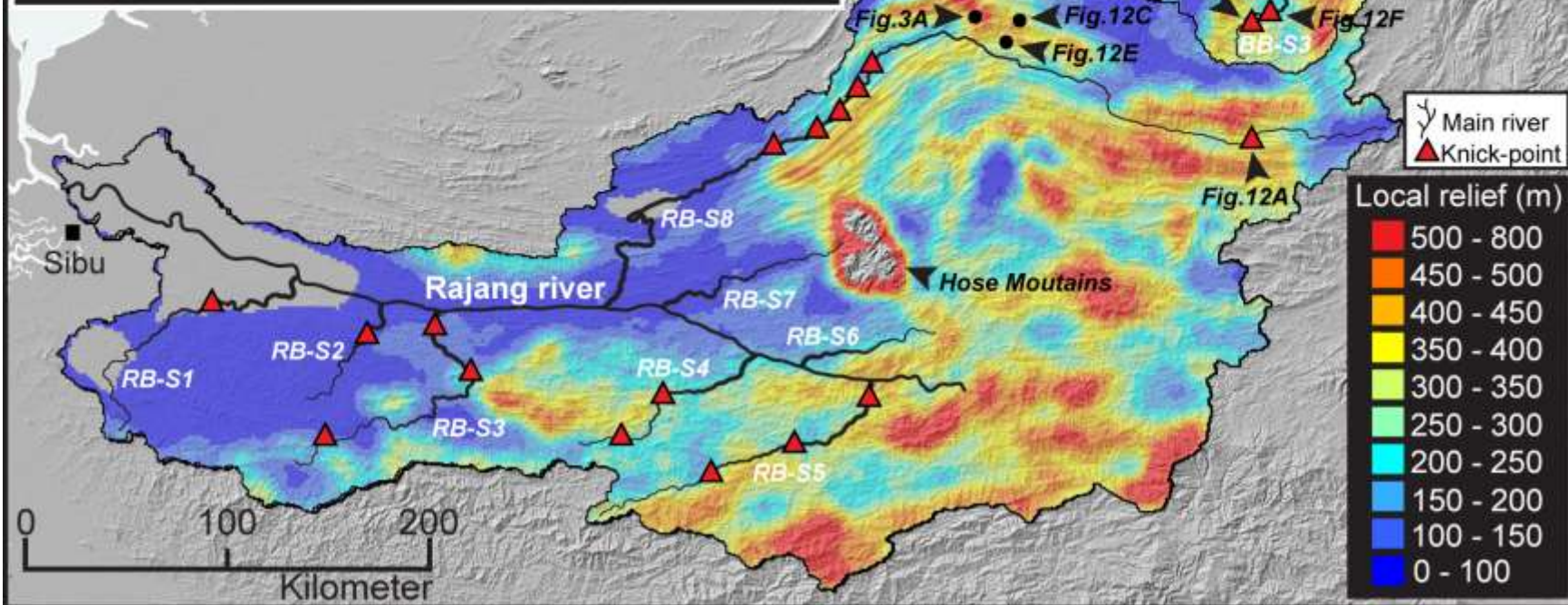
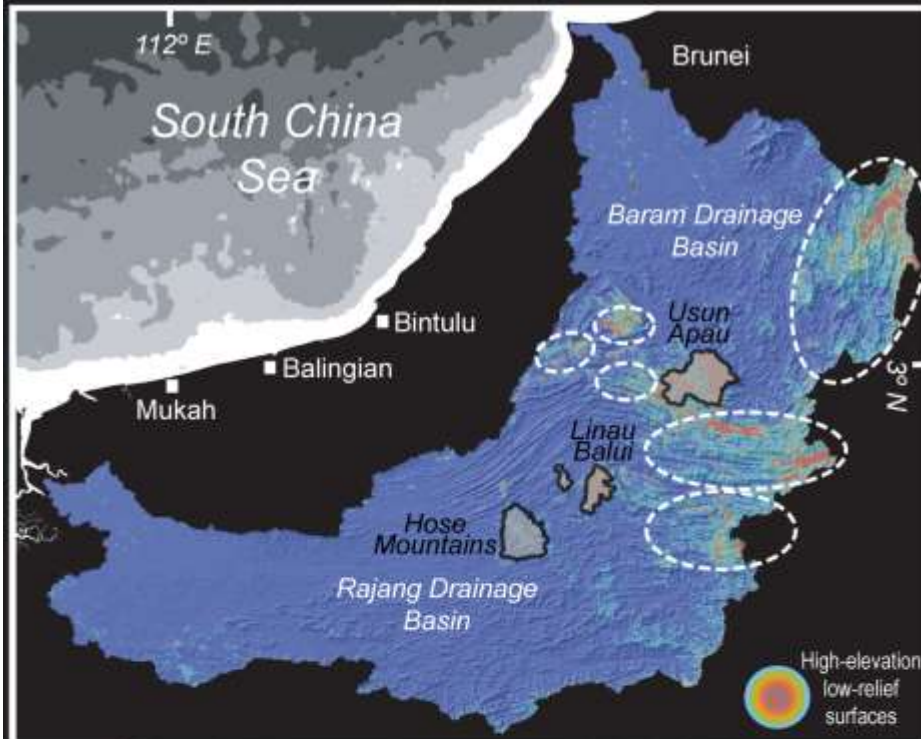


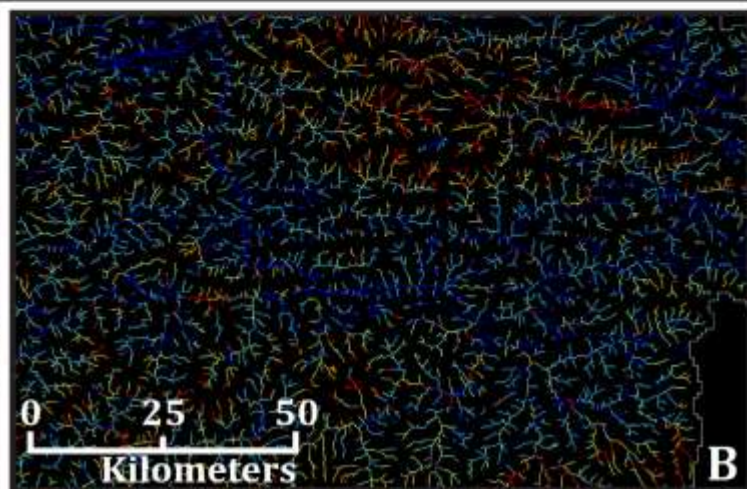
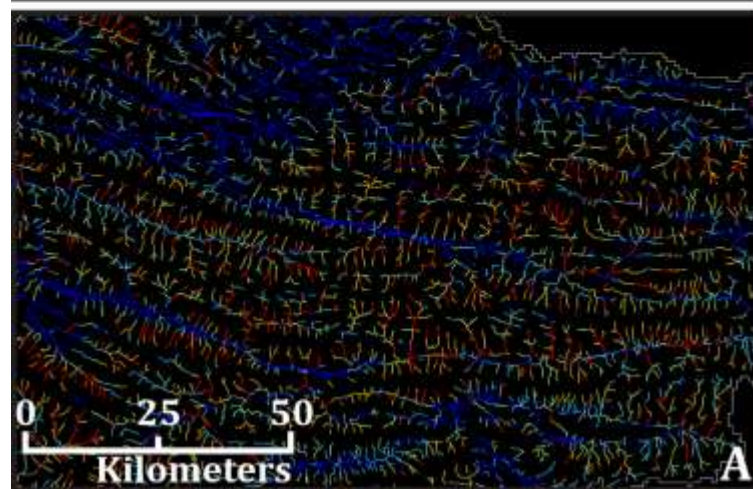
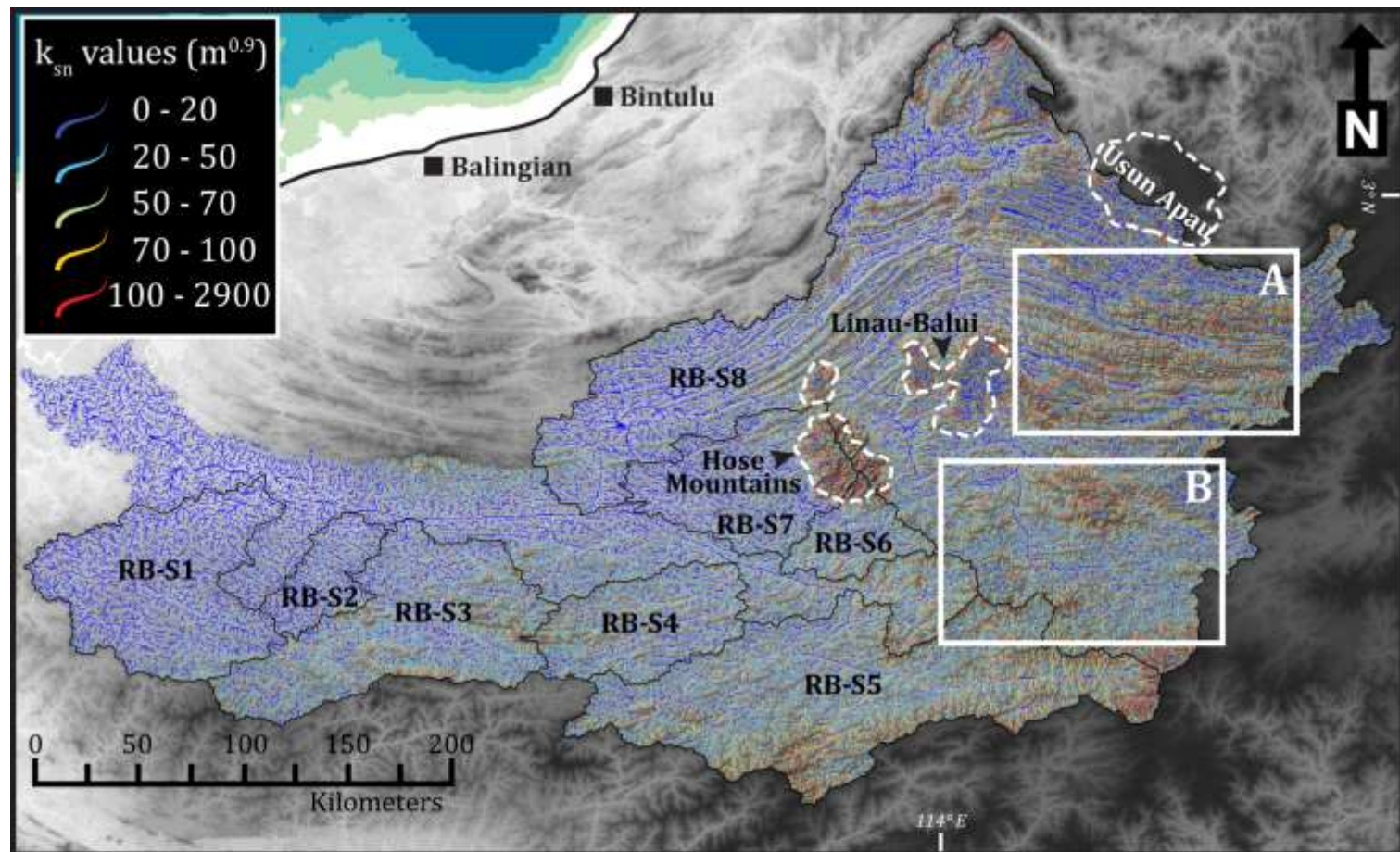


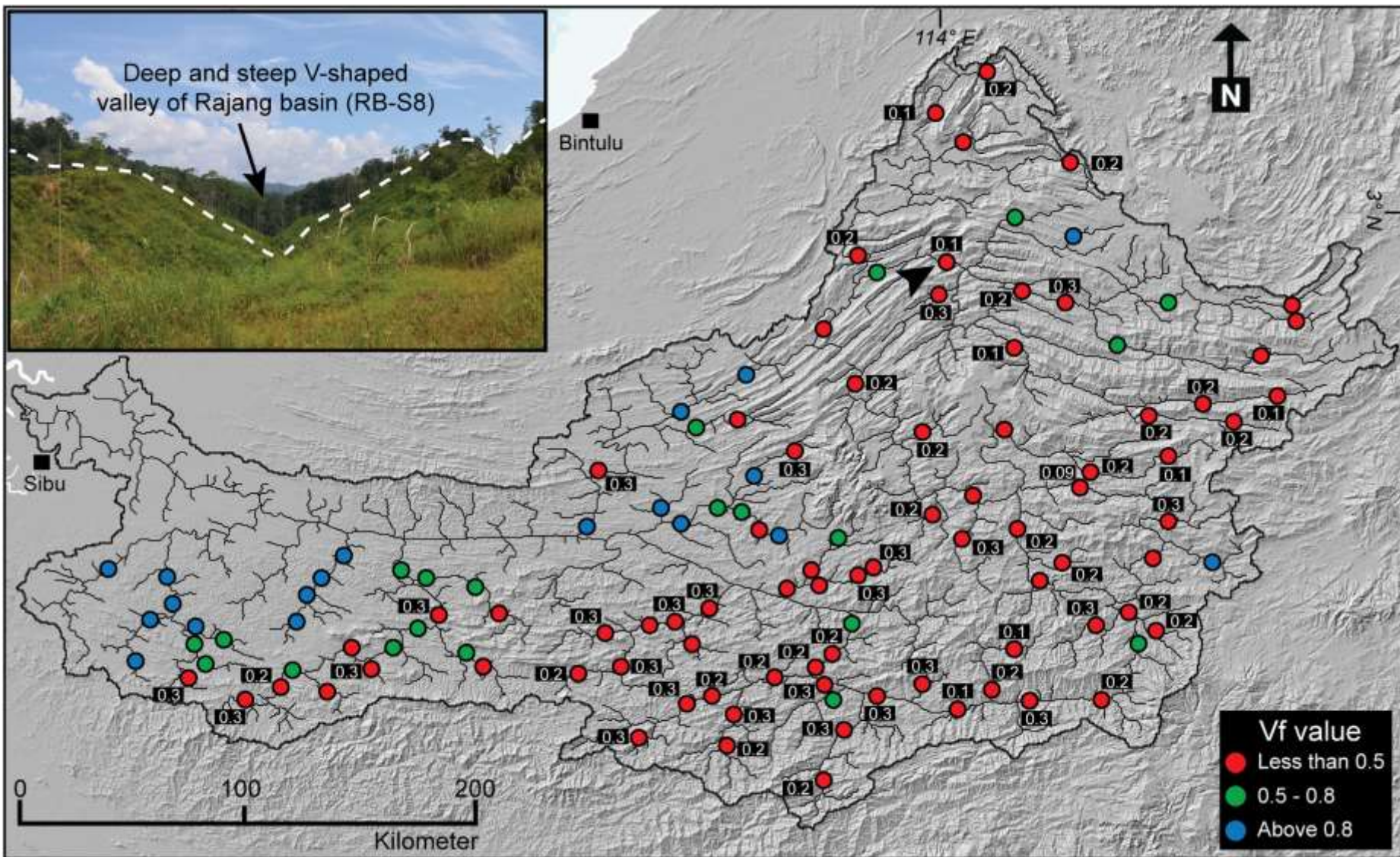




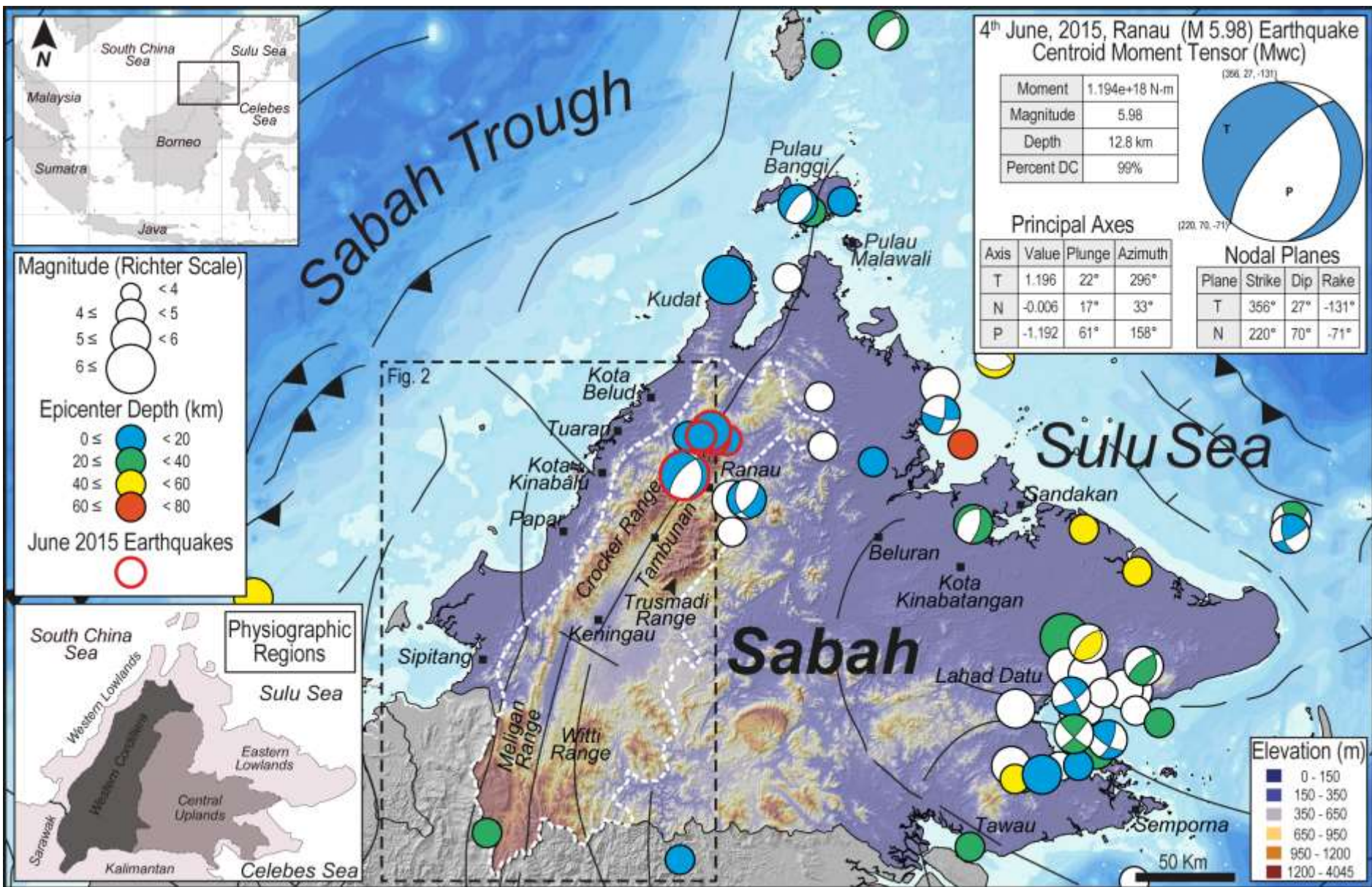












■ Holocene coastal and riverine alluvium

■ Pleistocene (Terrace sands, alluvial fans)

■ Middle Miocene-Pliocene (Sandstone, siltstone, conglomerate, shale)

■ Early Miocene (Mudstone and clays)

■ Early-Middle Miocene (Mudstone, sandstone, siltstone, conglomerate)

■ Oligocene (Rhythmic alternations of siltstone and shale)

■ Paleocene-Eocene (Shale and phyllite with sandstone and siltstone)

■ Eocene-Oligocene (Flysch-type sandstone, shale, siltstone)

■ Late Miocene-Pliocene (Quartzmonzonite, granodiorite)

■ Late cretaceous-Late Eocene (Mudstone with some sandstone)

■ Cretaceous-Eocene (Sandstone, conglomerate, volcanic breccia)

South China Sea

Labuan

Sipitang

Lawas
(Sarawak)

Crocker Range

Catchment Boundary

Trusmi Range

Tambunan plain

Keningau plain

Tenom plain

Sook plain

Nabawan plain

Witi Range

Meligan Range

Thrust fault

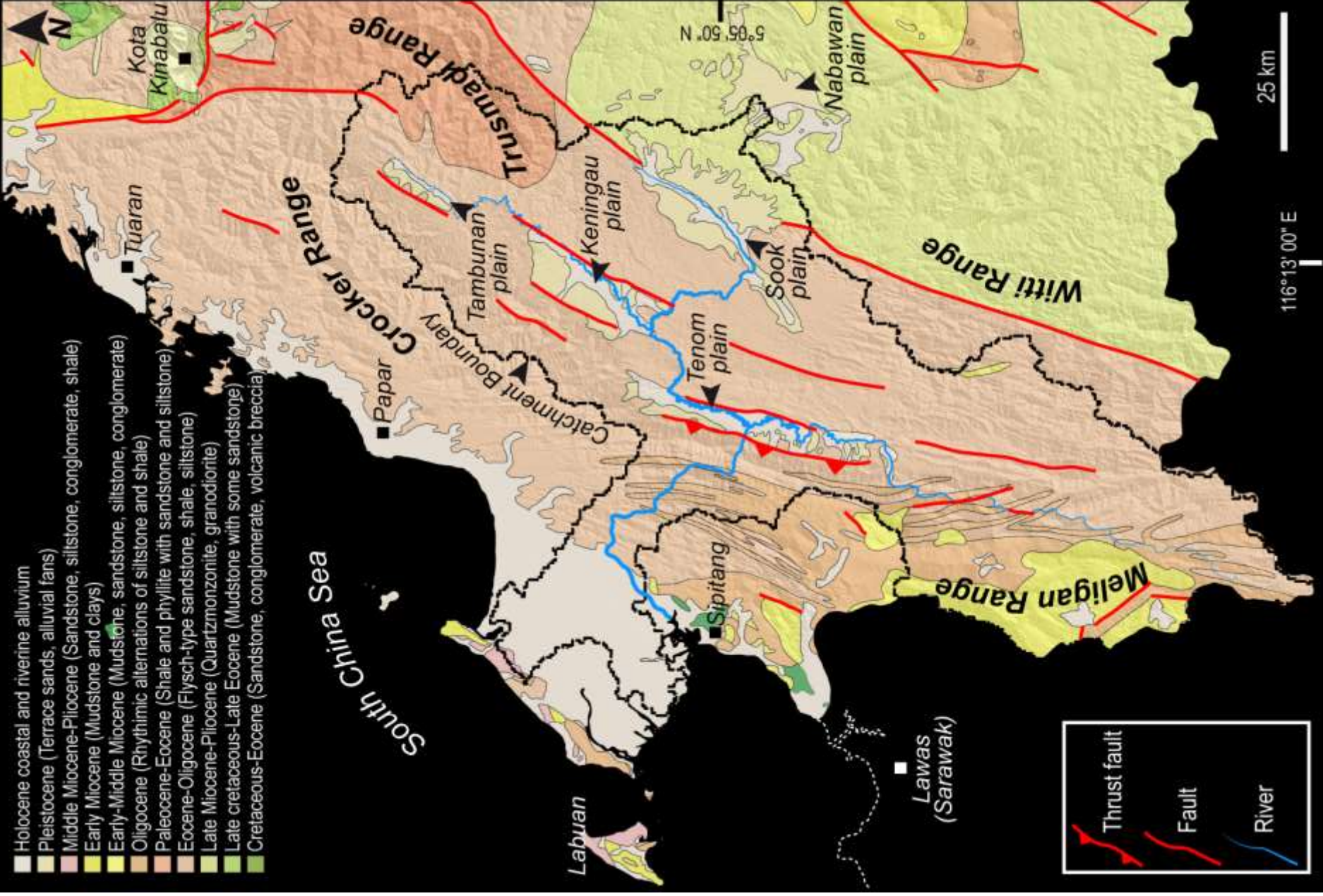
Fault

River

25 km

116°13'00" E

5°05'50" N





South China Sea

Kuala Penyu

Padas River

Papar

Crocker Range
(1800 m)

Pulau Gaya

Tuaran

Kota Belud

Kudat

Mt.
Kinabalu
(4095 m)

Trusmadi Range
(2500 m)

TF

TF

Tambunan Plain

Keningau Plain

Incised terrace deposits

Sook Plain

Sook River

TF

Tenom Plain

Padas Gorge

Alluvial fans

Witti Range
(1300 m)

