

Rejahan granit dalam batu kapur Formasi Setul telah menyebabkan magma yang cair (1000oC) menusuk masuk ke celahan dan peralapisan batuan. Geotapak Sil Pulau Tuba ialah fenomena penyusupan magma granit di antara lapisan batuan yang dijumpai pada singkapan batu kapur berhampiran jeti lama Tuba (Teluk Tuba). Di sini terdapat dua lapisan sil granit masing-masing berketebalan 1.5 m dan 1 m. Peristiwa ini berlaku semasa rejahan Granit Gunung Raya (zaman Trias, sekitar 220 juta tahun) mengangkat batuan sedimen dan mula membentuk daratan kuno Langkawi. Pembentukan sil adalah fenomena langka dalam proses geologi yang berlaku pada sempadan rejahan antara batuan igneus dan batuan sedimen di sekitarnya.

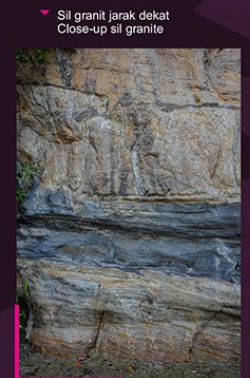
Interaksi antara magma lebur dan dengan batuan dinding boleh menghasilkan pembentukan mineral baharu. Bukti warisan geologi penting begini sering diburu oleh para saintis, malangnya masih belum dapat dihayati oleh penduduk tempatan. Pembangunan geotapak untuk pendidikan mampu meningkatkan kesedaran awam dan penghargaan kepada warisan setempat.

The granite intrusion in the Setul Formation limestone has caused molten magma (1000°C) to penetrate the cracks and bedding of the rocks. Pulau Tuba Sill Geosite is a phenomenon of granite magma infiltration between layers of sedimentary rock found in limestone outcrops near the old Tuba jetty (Tuba Bay). Here, there are two layers of granite sills, 1.5 m and 1 m thick. This event occurred during the implacement of Mount Raya Granite (Triassic Period, around 220 million years) pushing up sedimentary rocks from the ocean and exposing Langkawi's ancient land. Sill formation is a rare phenomenon in geological processes that occur at the boundary between igneous intrusion and surrounding sedimentary rocks.

The interaction between molten magma and the surrounding rock can result in the formation of new minerals. Scientists often look for such an important evidence of geological heritage. Unfortunately, the locals are not yet aware of this important site. The development of geosite for education can increase public awareness and appreciation of local heritage.



Lakaran sil granit
Granite sill sketch



Sil granit jarak dekat
Close-up sil granite

