

**PULAU PAYAR: KEDUDUKANNYA DALAM TURUS
STRATIGRAFI BARATLAUT SEMENANJUNG MALAYSIA
(The Payar Islands: Its position in the stratigraphic column
of northeast Peninsular Malaysia)**

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Kepulauan Payar, sekumpulan tiga pulau terletak lebih kurang 26 km dari Kuala Kedah, telah dilaporkan terdiri daripada batuan yang berkaitan dengan Formasi Machinchang, Formasi Mahang dan Formasi Semanggol. Pola struktur kepulauan ini bersesuaian dengan struktur yang terdapat di mendala timur Formasi Machinchang, di Pulau Langkawi. Batuan Kepulauan Payar terdiri daripada batu pasir yang sederhana bersih dengan kandungan feldspar lebih kurang 5% isipadu. Struktur sedimen seperti pertapisan silang berskala mega, struktur pling dan lapisan konvolut bersesuaian dengan yang dilihat di beberapa bahagian Formasi Machinchang. Arah arus kuno bergerak dari barat laut ke tenggara. Tiada sebarang fosil dijumpai di sini. Struktur primer dan sekunder yang terdapat di sini mencadangkan Kepulauan Payar sebagai satu ahli di dalam Formasi Machinchang. Kami percaya batuan ini mewakili satu rantaian yang hilang di antara Formasi Machinchang Kepulauan Langkawi dan ahli kuarzit Formasi Jeral di Kedah tengah.

Payar Islands, a group of three islands that are situated about 26 km from Kuala Kedah, have been differently reported as making up of rocks that are affiliated to the Machinchang Formation, to the Mahang Formation and to the Semanggol Formation. The structural grain of the islands is consistent with that of the eastern domain of the Machinchang Formation in Pulau Langkawi. The rocks of Payar Islands are composed of fairly clean sandstone with about 5 volume percent of feldspar. Primary structures such as megascale cross-bedding, dish structure and convolute bedding are similar to that seen in certain sections of the Machinchang Formation. The paleocurrent direction is from the northwest towards the southeast. No fossil is found. The available primary and secondary structures suggest the rocks of the Payar Islands are, most likely, a member of the Machinchang Formation. We believe the rocks represent a missing link between the Machinchang Formation of Langkawi Islands and the quartzite member of the Jeral Formation in central Kedah.