## カンボジアにおけるジュラ紀・白亜紀赤色砂岩の古地磁気学的研究

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## Paleomagnetic study of Jurassic-Cretaceous redbeds in Cambodia

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The Indochina Peninsula, which consists of several blocks, was subjected to complicated tectonic deformations. We carried out the paleomegnetic study of Jurassic-Cretaceous redbeds from the southwestern Cambodia to constrain deformation mode of the Indochina Peninsula. We collected rock samples at the Sihanoukville area (10.5°N, 103.6°E, 15 sites) and the Koh Kong area (11.6°N, 103.1°E, 14 sites) around the boundary between the Indochina and Sukhothai Blocks. Stepwise thermal demagnetization experiments revealed high temperature magnetic component with a unblocking temperature of 620-690°C in most samples, and it was recognized as characteristic remanent magnetizations (ChRMs). The ChRMs indentified were grouped into two directions: the northerly and easterly directions. The in-situ mean of the northerly direction is D=5.4°, I=18.5°, alpha95=3.1°, N=19, and the mean after tilt-corrected is D=4.4°, I=14.7°, alpha95=5.1°. We judged that the northerly direction is acquired secondarily because of negative fold test. The in-situ mean of the easterly direction is D=41.6°, I=30.9°, alpha95=5.1°, N=11, and the mean after tilt-corrected is D=42.0°, I=32.1°, alpha95=5.0°. Although fold test is inconclusive, the easterly direction is apart from the northerly one and is recognized as primary magnetization. The easterly direction is concordant with Jurassic-Cretaceous directions reported previously in the Indochina Block. We conclude that the southwestern Cambodia belongs to the Indochina Block and have experienced clockwise rotation as its part.

いくつかのブロックから構成されるインドシナ半島は、テクトニックな変形を経験してきた。インドシナ半島の変形様式を調べるために、我々はカンボジア南西部に分布するジュラ紀・白亜紀赤色砂岩の古地磁気学的研究を行った。シアヌークビル地域( $10.5^{\circ}$ N,  $103.6^{\circ}$ E, 15 サイト)とコッコン地域( $11.6^{\circ}$ N,  $103.1^{\circ}$ E, 14 サイト)において試料を採取した。これらの地域は、Indochina Block と Sukhothai Block の境界付近に位置している。すべての試料に熱段階消磁を施し、残留磁化をそれぞれ測定した。239 試料のうち 221 試料において、 $620 \sim 690^{\circ}$ C のアンブロッキング温度を持つ高温磁化成分を分離し、北向きと東振りの 2 つの平均方向を求めた。北向きの方向は、傾動補正前 D= $5.4^{\circ}$ ,  $I=18.5^{\circ}$ , I