

## THE PERMO-TRIASSIC TRANSITIONAL SEQUENCE IN SOUTH CHINA

TONG, Jinnan and Peng Yuanqiao (Open Laboratory of Earth Surface System, China University of Geosciences, Wuhan 430074, China.

The Permo-Triassic boundary defined by the FAD of conodont *Hindeodus parvus* is between Bed 27b and 27c at Meishan Section, Zhejiang Province, South China. The boundary is located within Bed 27, a single natural bed of apparently uniform micrite of about 16 cm thick. However, further study shows that the variation within Bed 27 is expressed not only by the conodont zones and biotic events but also by many sedimentary indicators such as microfacies, elementary geochemistry, etc. According to sequence stratigraphic study, the transgressive surface (TS) is situated at the base of this bed. Bed 26 and 25 below the surface and Bed 28 above this micritic bed are (volcanic) montmorillonite-illite clay beds. Many significant extraordinary events concentrated around this boundary micritic bed. Of more interest is that this boundary stratigraphic sequence combined of the “lower boundary claystone bed”, “middle boundary micrite bed” and “upper boundary claystone bed” can be easily recognized and well traced in many sections of South China over various paleogeographic facies.