

THE AMMONITE SUCCESSION IN TETHYAN HIMALAYA PROVINCE AND ITS IMPLICATION TO PALEOBIOGEOGRAPHY

Jiarun Yin

The Jurassic ammonite succession from fossils in situ collected newly from the Himalayan Tibet is presented. Following *Choristoceras marshi* of the Uppermost Triassic, Hettangian fauna consists of *Psiloceras* cf. *pacificum*, *Caloceras crassicoatum*, *Kammerkarites* cf. *haploptychus* from Planorbis to Jastoni Zones, suggesting a trans-Pacific faunal dispersal from the East Pacific before of Hispanic Corridor opening. Toarcian ammonites, presented by *Polyplectus discoides*, *Phymatoceras* cf. *crassicoata*, exhibits exchanges with Submediterranean. Early Bajocian ammonites, presented by *Witchellia-Fontannesia* assemblage of the *Laeviuscula* Zone, shows a close affinity with Australian fauna. The succeeding assemblage of *Chondroceras evolvensense*, *Chondroceras* cf. *crassicoatum*, *Dorsetensia* cf. *edouardiana*, indicates the *Humphriesianum* Zone. The Late Bathonian fauna of the *Orbis* Zone, consists of *Oxycerites* cf. *orbis*, *Macrocephalites* cf. *jaquoti*; and the *Discus* Zone is represented by *Homoeoplanutes arkelli* and *Homoeoplanutes baliensis*. Period from Upper Bathonian to Lower Callovian seems to be the fairest times for the faunal exchange between Tethyan Himalaya and Submediterranean provinces, as a number of European forms character the *Herveri* and *Gracilis* Zones, such as *Bomburites* cf. *devauxi*, *Kheraiceris* cf. *cosmopolitum*, *Jeanneticeras* cf. *anomalum*; and *Macrocephalites* cf. *waageni*, *Reineckeia* cf. *spinosa*. Late Jurassic ammonoid is strongly endemic, suggesting paleobiogeographic distinction of SW Pacific province. *Epimayaites badiensis*, *Ep.* *falcoides* and *Otosphinctes* cf. *montfalconensis* character Oxfordian. Four local assemblages in Tithonian are recognized: the *Aulacosphinctoides infundibulum-Virgatosphinctes*, *Aulacosphinctes parvulus-Uhligites krafftii*, the *Virgatosphinctes - Haplophylloceras pingue* and the *Blanfordiceras* Assemblages.