



# OLIGOCENE OSTRACODE BIOSTRATIGRAPHY OF KACHCHH AND BOMBAY OFFSHORE BASINS, INDIA

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## ABSTRACT

Seventy-six ostracode taxa are recorded from the Oligocene of the Kachchh and Bombay Offshore basins, India. Of these, *Acanthocythereis muktaensis*, *Alocopocythere waiorensis*, *Asymmetricythere kachchhensis*, *Bairdoppilata maharashtraensis*, *Bairdoppilata mumbaiensis*, *Bythocypris mumbaiensis*, *Phlyctenophora ramanianaensis*, *Quadracythere alata* and *Uroleberis indica* are new. On their First Appearance Datum (FAD) and Last Appearance Datum (LAD), the Lower Oligocene strata in the Bombay Offshore Basin are divided into four ostracode interval zones. They are in ascending order: 1-*Uroleberis sohni* - *Pokornyella kutchensis* Interval Zone, 2-*P. kutchensis* - *Phlyctenophora ramanianaensis* n. sp. Interval Zone, 3-*Phlyctenophora ramanianaensis*-*Acanthocythereis muktaensis* Interval Zone and 4-*Acanthocythereis muktaensis*-*Hornibrookella ramanianaensis* Interval Zone. The Upper Oligocene in the holostratotype of the Waior river section, Kachchh is best developed and divided into four interval zones. They are: *Alocopocythere waiorensis* Range Zone, 2. *Alocopocythere waiorensis* - *Alocopocythere elongata* Interval Zone, 3. *Alocopocythere elongata*- *Haplocytheridea manifesta* / *Loxoconcha keralaensis* Interval Zone and 4. *Haplocytheridea manifesta*/*Loxoconcha keralaensis*-*Uroleberis sohni* Interval Zone. The Lower Oligocene ostracode zones of the Bombay Offshore Basin are fairly well correlated and traced laterally in the Kachchh Basin.