

A note on the Ostracodes from the Lower Miocene beds of Saurashtra

S. C. KHOSLA AND P. C. PANT

Abstract

The paper records the occurrence of 76 species of ostracodes from the Lower Miocene beds of Saurashtra. 41 species have been assigned to the previously established species from India and elsewhere. 35 species are hitherto not described and many of these are probably new.

Introduction

The Lower Miocene beds of Saurashtra occur as small isolated patches along the coast extending from Bhavnagar (21°46'N : 72°09'E) in the east to Okhamandal (22°06'N : 69°07'E) in the west. These beds are very rich in microfauna consisting predominantly of foraminifers and ostracodes. A survey of the literature shows that although considerable work has been done on the foraminifers, the ostracodes on the other hand have not received much attention from the micropalaeontologists. Perhaps the only paper, as far as known to the authors, is by Guha (1967), who in a short research note recorded the occurrence of 31 species of ostracodes (including two new) from the Lower Miocene beds of Saurashtra.

With the intention of working the little known ostracode fauna of the Lower Miocene beds of Saurashtra, the present authors collected samples from four sections near Nandana village (22°07'46"N : 69°17'41"E) in Jamnagar district, and one section near Visawara village (27°47'N : 69°27'E) in Porbandar district, in October-November, 1974. All these sections yielded a rich and interesting ostracode assemblage comprising 76 species. The object of the present advance note is to place on record this assemblage. Detailed systematics is under preparation and will be published elsewhere.

Ostracode fauna

Of the 76 ostracode species recorded in this paper, the following 41 species have been assigned to the previously established species from India and elsewhere (those marked by* are common to already recorded species from Saurashtra by Guha, 1967): *Cytherella protuberantis* Lubimova and Guha*, *Cytherelloidea chaasraensis* Guha*, *C. costatruncata* Lubimova and Mohan*, *C. cutchensis* Lubimova and Guha*, *C. insolensa* Lubimova and Guha*, *C. sp. cf. C. praecipua* van den Bold, *Bairdoppilata rajnathi* Tewari and Tandon, *Propontocypris (propontocypris) herdmanni* (Scott), *Phlyctenophora meridionalis* (Lubimova and Mohan*), *Macrocypris decora* (Brady), *Leptocythere chadopadiensis* Lubimova and Guha*, *Aurila sp. cf. A. amygdala* (Stephenson), *Orionina sp. cf. O. flabellacosta* Holden, *Pokornyella chaasraensis* (Lubimova and Guha*), *Radimella sp. cf. R. polycosta* Holden, *R. saurashtraensis* (Lubimova and Guha*), *Leguminocythereis mutara* (Lubimova and Guha*), *Actinocythereis tumefacensis* (Lubimova and Guha*), *Alococythere fossularis* (Lubimova and Guha*), *'Archicythereis' pulcheris* (Lubimova and Guha*), *Buntonia secedens* (Lubimova and Guha*), *Cletocythereis rastromarginata* (Brady), *Hermanites sp. cf. H. paijenborchiana* Keij, *H. purii* Tewari and Tandon*, *Occultocythereis lauta* (Brady), *Stigmatocythere chaasraensis* (Guha*), *S. latebrosa* (Lubimova and Guha*) *Cytheretta*

(*Flexus*) *trifurcata* Lubimova and Guha*, *Hemicyprideis autonoma* (Lubimova and Guha*), *Kriihe autochthona* Lubimova and Guha*, *K. papillosa* (Bosquet), *Miscyprideis chaudhuryi* (Lubimova and Guha*), *Neomonoceratina gajensis* Guha, *N. kutchensis* Guha*, *N. oertlii* Guha*, *Paijenborchella* (*Eupaijenborchella*) *prona* Lubimova and Guha*, *Paracytheridea* sp. cf. *P. (P.) gradata* (Bosquet), *P. perspicus* Lubimova and Guha, *Loxococoncha confinis* (Lubimova and Guha*), *L.* sp. cf. *L. alata* Brady, and *Xestoleberis variegata* Brady*.

The remaining 35 species are hitherto not described and many of these are probably new. The species belong one each to *Cytherella*, *Havanardia*, *Neonesidea*, *Triebelina*, *Aglaiocypris*?, *Paracypris*, *Phlyctenophora*, *Caudites*, *Quadracythere*, *Alocopocythere Basslerites*?, *Gyrocythere*, *Hiltermannicythere*, *Pterygocythereis*?, *Ruggieria*, *Stigmatocythere*, *Miocyprideis*, *Paijenborchella* (*Eupaijenborchella*), and *Loxocorniculum*, two each to *Paranesidea*, *Pokornyella*, 'Archicythereis' *Hemicyprideis* and *Xestoleberis*, and three each to *Bairdoppilata*, and a new Hemicytherinae genus.

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Reference

- GUHA, D. K., (1967) Ostracoda from the Lower Miocene of Saurashtra, Western India. *Quart. Jour. Geol. Min. Metall. Soc. India*, v. 39, no. 1, pp. 35-37, figs. 1-2.

Address of the authors

S. C. KHOSLA and P. C. PANT, University of Rajasthan, Department of Geology, Udaipur 313001.