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Paleoecology of the Lower Miocene Sequence in Jambur well No.18 Northern Iraq

Tarik S. Abawi
Department of Geology
College of Science
Mosul University

Hamed D. Hani
Technical Institute
Al-Shatra
Dhikar

ABSTRACT

The environmental conditions prevailing during sedimentation of the lower Miocene sequence, represented by the Serikagni Formation, the Serikagni/Euphrates intertonguing and the Euphrates Formation, in Jambur well No.18, Northern Iraq are revealed by the interpretation of its foraminiferal fauna. The environmental relationships of the foraminiferal assemblage indicate that the Serikagni Formation was deposited in upper/middle slope, the Serikagni/Euphrates intertonguing in outer shelf and the Euphrates Formation in inner shelf depths. The planktonic foraminiferal fauna recorded in this study is typical Tethyan in composition; its high diversity indicates tropical – subtropical climatic conditions.

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(1)

40

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(Bellen, 1955 in Bellen et al., 1959)

(Buday, 1980)

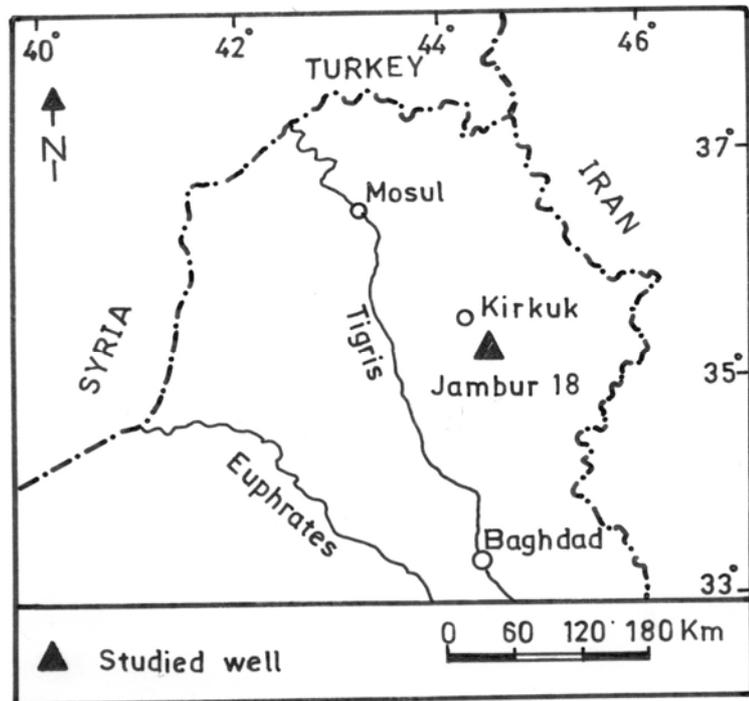
(Boeckh et al., 1929 in Bellen et al., 1959)

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(Buday, 1980)

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20 .18
) 54.5 . 7.0 – 0.5
 (23.5
 11.5) () (6.0)
 (13.5) ()
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 .(1991) ()
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 .(1988)

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.(Murray, 1973; Boltovskoy and Boltovskoy, 1988)

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(Boersma, 1978)

.(Phleger, 1960; Boltovskoy and Wright, 1976; Brasier, 1980)

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-%50

%50

%30-%15

%90-%50

()

%85

(Kafescioglu, 1971; Brasier, 1980)

/

9

30

Globigerina

.(1)

Globorotalia

.(2)

22

37

(Tethys)

.(Bandy, 1964; Be, 1977; Boersma, 1978)

-

.(2)

(20-10)

%.85-%50

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.(Boltovskoy and Wright, 1976) 900-200

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Bulimina jarvisi, Cibicidoides lamontdohertyi, Gyroidina orbicularis, Pullenia bulloides, Pullenia quinqueloba, Spirolectammina adamsi, Uvigerina cocoaensis, Uvigerina striatissima.

Souaya, 1966; Wright, 1978; Cassell and) :

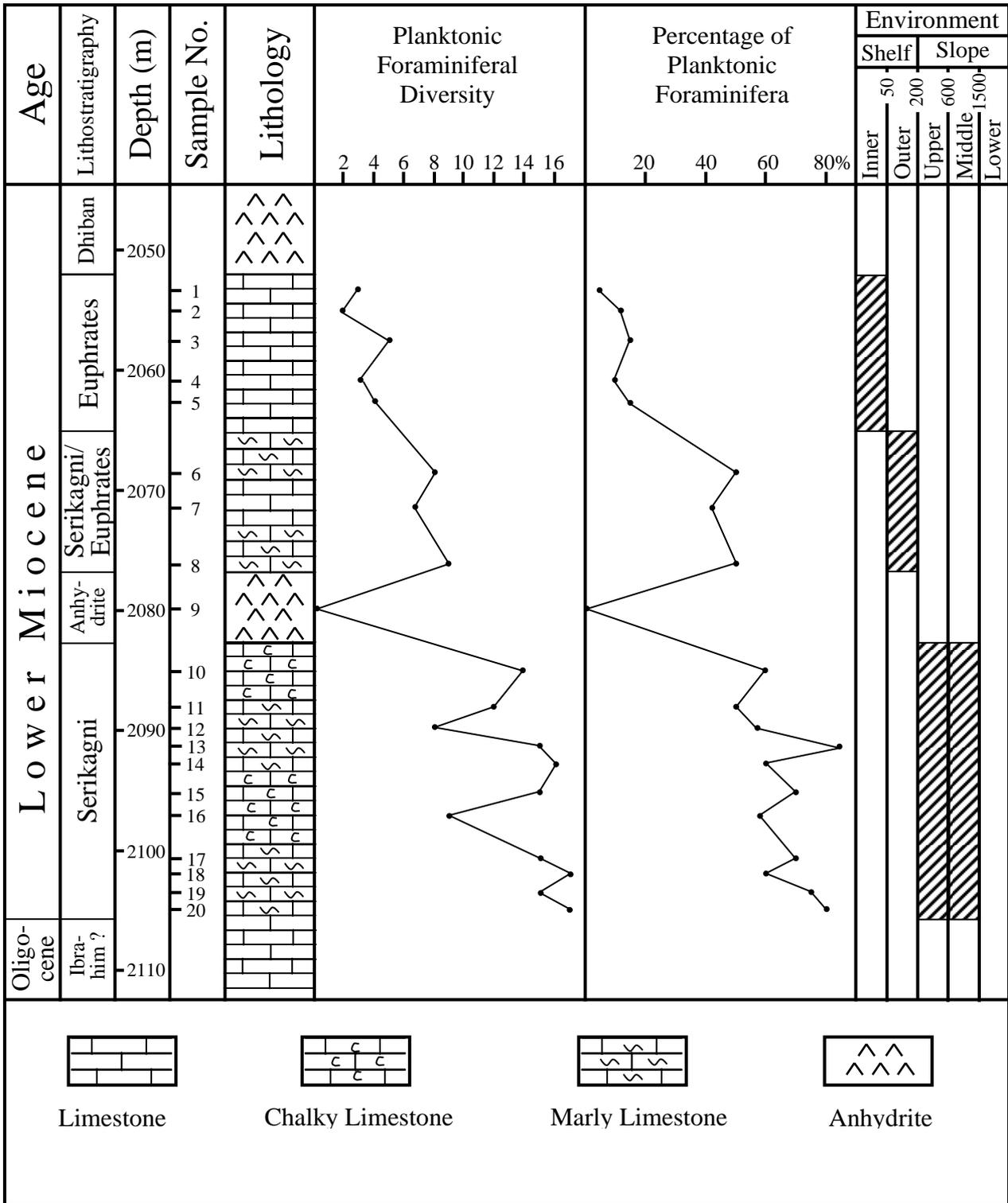
(Sen Gupta, 1989; Woodruff and Savin, 1989

(8-6) /

%50 - %45

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Bolivina marginata, *Cibicidoides kullenbergi*, *Discorbis* :

turbu, *Eponides repandus*, *Nonionella amplilabrata*.

Said and Metwalli, 1963; Koutsoukos, 1985; Woodruff and Savin,) :

.(1989

(5 -1)

%15 /

(Lagoon)

Ammonia beccarii, *Elphidium lens*, *Cibicides akneriana*, *Cibicides* :

dampelae, *Nonion boueanum*, *Nonion depressulus*, *Triloculina trigonula*.

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.(Boltovskoy and Wright, 1976; Poag, 1981; Koutsoukos, 1985; Wielandt, 1996)

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.1991

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Cassigerinella chipolensis (Cushman and Ponton)
Catapsydrax dissimilis (Cushman and Bermudez)
Cx. stainforthi Bolli, Loeblich and Tappan
Cx. unicavus Bolli, Loeblich and Tappan
Globigerina angustiumbilicata Bolli
Glg. bollii Cita and Silva
Glg. brazieri Jenkins
Glg. euapertura Jenkins
Glg. praebulloides leroyi Blow and Banner
Glg. p. occlusa Blow and Banner
Glg. p. praebulloides Blow
Glg. pseudociperoensis Bolw
Glg. woodi connecta Jenkins
Glg. w. woodi Jenkins
Globigerinoides primordius Blow and Banner
Gls. trilobus immaturus Le Roy
Gls. tril. trilobus (Reuss)
Globigerinopsis aguasayensis Bolli
Gln. grilli Schmid
Globoquadrina baroemoenensis (Le Roy)
Glg. dehiscens dehiscens (Chapman, Parr and Collins).
Glg. venezuelana (Hedberg)
Globorotalia continua Blow
Glt. kugleri Bolli
Glt. mayeri Cushman and Ellisor
Glt. obesa Bolli
Glt. opima nana/ continua transition
Glt. siakensis Le Roy
Globorotalloides suteri Bolli
Praeorbulina transitoria (Blow)

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Ammonia beccarii (Linne)
A. tochiensis (Uchio)
Anomalina granosa Cushman and Applin
Anomalinoides pseudogrosserugosus (Colom)
Bolivina marginata Cushman
Bulimina jarvisi Cushman and Parker
Cibicides akneriana (D'Orbigny)
C. dampelae Bykova and Khramaya
C. lobatulus (Walker and Jacob)
C. mexicanus Nuttall

Cibicidoides dickersoni (Bermudez)
Cb. eocaenus (Guembel)
Cb. kullenbergi (Parker)
Cb. lamontdohertyi Miller and Katz
Discorbis turbo (D'Orbigny)
Dorothia bulletta (Carsey)
Elphidium lens Galloway and Heminway
Eponides ellisorae Garrett
E. parantillarum Galloway and Heminway
E. repandus (Fichtel and Moll)
Florilus costiferus (Cushman)
Gyroidina orbicularis D'Orbigny
Hanzawaia ammophila (Guembel)
H. prona Poag
Heterolepa dutemplei (D'Orbigny)
Ht. aff. perlucida (Nuttal)
Melonis barleeianum (Williamson)
Nonion boueanum (D'Orbigny)
N. commune (D'Orbigny)
N. depressulus (Walker and Jacob)
Nonionella amplilabrata Belford
Pullenia bulloides (D'Orbigny)
P. quinqueloba (Reuss)
Spiroplectammina adamsi Lalicker
Triloculina trigonula (Lamarck)
Uvigerina cocoaensis Cushman
U. striatissima Perconig