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(2002/6/12 2002/12/24)

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:

Anommatocythere; Brachycythere; Buntonia; Kaesleria; Mehsella; Nucleolina and *Protobuntonia* .

:

Brachycythere; Kaesleria; Protobuntonia .

:

Buntonia, Mehsella; Nucleolina

. Anommatocythere

Distribution and Evolutionary Trends of The Upper Cretaceous-Lower Tertiary Ostracode From Iraq and Arabian Gulf.

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ABSTRACT

The Ostracode biostratigraphic evidence and the evolutionary trend of Upper Cretaceous-Lower Tertiary Ostracodes are determined by using the vertical and lateral distribution and the morphological change of the selective genera and species.

Anommatocythere; *Brachycythere*; *Buntonia*; *Kaesleria*; *Mehsella*; *Nucleolina* and *Protobuntonia*.

The evidence determined by the study of the above taxa of this time shows closely resemblance in their morphological features and suddenly disappears during the Upper Cretaceous of the genera:

Brachycythere; *Kaesleria*; *Mehsella*; *Protobuntonia* and other species continue in the Lower Tertiary, *Buntonia*; *Mehsella* and *Nucleolina*. Otherwise species of *Anommatocythere* show first appear during the Lower Tertiary .

(%)

(Trachyleberid)

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Buntonia

(Howe,1935)

Buntonia shubtaensis (Howe, 1935)

(Apostolescu,1963) *B. cretacea*

(Reyment, 1960)

(Apostolescu,1963)

. *B. cretacea* (Al- Ubide, 1989)

(Grosdidier, 1973)

B. IRC33 Grosdidier 1973

B. IRE9 Grosdidier 1973

- (Athersuch, 1988)

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(Yousif, 1987, Aziz, 2001)

Buntonia aalijensis Aziz, 2001

Buntonia senouensis Apostolescu, 1963

B. khurmalenis Aziz, 2001

B. desertensis Aziz, 2001

B. sp.1 yousif, 1987

B. jordanica Bassiouni, 1969

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AD : Abu Dhabi, Irq : Iraq, Irn : Iran, O: Oman, SA : Saudia Arabia

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Buntonia (Al- Furiyah, 1980)

:Brachycythere

(Alexander, 1933)

Cythere sphenoides (Reuss,1854)

Brachycythere (B.) *sphensides* (Reuss)

(Grosdidier, 1979)

B. sapucariensis (Krommelbein, 1964)

(Bismuth *et al.*, 1981)

(Grekoff, 1951, 1969)

B.hatraensis

B.wellingsii Al-Sayyab 1956

(Al-Sayyab,1956)

(Al-Bashir, 1986)

B. IRJ10

(Athersuch, 1994)

(Al- Ubide, 1989)

(Grosdidier, 1973)

(Grosdidier, 1973)

(Athersuch, 1988, 1994)

(Grosdidier, 1973)

(Al-Furiyah, 1980, 1984)

(Athersuch, 1987)

(Al- Ubide, 1989)

:Mehsella

-

(Reyment, 1960)

M. biafrensis (Reyment, 1960)

M. Paleobiafrensis (Reyment, 1960)

M. africana

(Ware, 1992)

(Grosdidier,1973)

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Mehsella IRE17 Grosdidier, 1973
M. IRJ 1 Grosdidier, 1973
M. IRE31 Grosdidier, 1973
M. IRC23 Grosdidier, 1973
M. IRE30 Grosdidier, 1973

Kaessleria

Kaessleria IRC23 (Athersuch, 1994) *M.IRC23*
(Athersuch 1987) (Babinot and Bourdillon de-Grissac,1987)
(Al-Bashir, 1986) (Athersuch, 1988)

Brachycythere gulasamaensis

Brachycythere

:Kaessleria

- (Al-Furiah, 1986)

Brachycythere bilirata (Al-Furiah,1980)

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Brachycythere

(Alexander, 1933)

Anommatocythere

Kaessleria

- *Mehsella IRE31* (Grosdidier, 1973)

- *K.trahea* (Al-Furiah ,1986)

M.IRC23

K.undulata (Al- Furiah,1986)

.....

Mehsella

Kaesleria

. (Al-Furiah, 1986)

:*Protobuntonia*

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(Grekoff, 1954)

.Protobuntonia numidica (Grekoff, 1954)

-

(Al- Ubide, 1989)

(1973) Grosdidier

P.IRH28

P.numidica

-

Protobuntoni

Buntonia (Howe, 1935)

Brachycythere (Alexander, 1933)

Ventral swelling

:*Nucleolina*

(Apostolescu, 1961)

(Deroo, 1966)

Nucleolina tatteuliensis (Apostolescu ,1961)

N. tenuiornata

N.diluta (Al- Furiah, 1980)

-

Brachycythere

Nucleolina

Brachycythere

Buntonia

(Aziz ,2001)

(Khalaf and Aziz , 2001) (Al-Furiah, 1980)

Buntonia

Nucleolina

Buntonia

Brachycythere

Nucleolina

.()

:Anommatocythere

(Sohn, 1970)

A. microreticulata (Sohn, 1970)

(Aziz, 1990)

(Al-Furiah and Siddiqui, 1981)

(Siddiqui,1971)

(Al-Furaih,1981, 1983)

(Bosquet, 1832)

Anommatocythere

(Al-Furaih and Siddiqui, 1981)

(Tribe Echinocythere Hazel, 1967)

Brachycythere

Anommatocythere

Anommatocythere

Brachycythere

:

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%

(Al-Ubide, 1989)

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(Gradual Divergence)

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Buntonia; *Brachythere*; *Mehsella*; *Kaesleria*; *Protobuntonia*; *Nucleolina* and *Anommatocythere*.

:

Brachythere

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(*Mehsella* Reyment, 1960)

Kaesleria

Kaesleria *Brachythere*

(*Brachythere*) *Protobuntonia*

. *Buntonia* *Brachythere*

Brachythere

Nucleolina

.()

Mehsella

Brachyther; *Kaesleria*;

Protobuntonia

Anommatocythere

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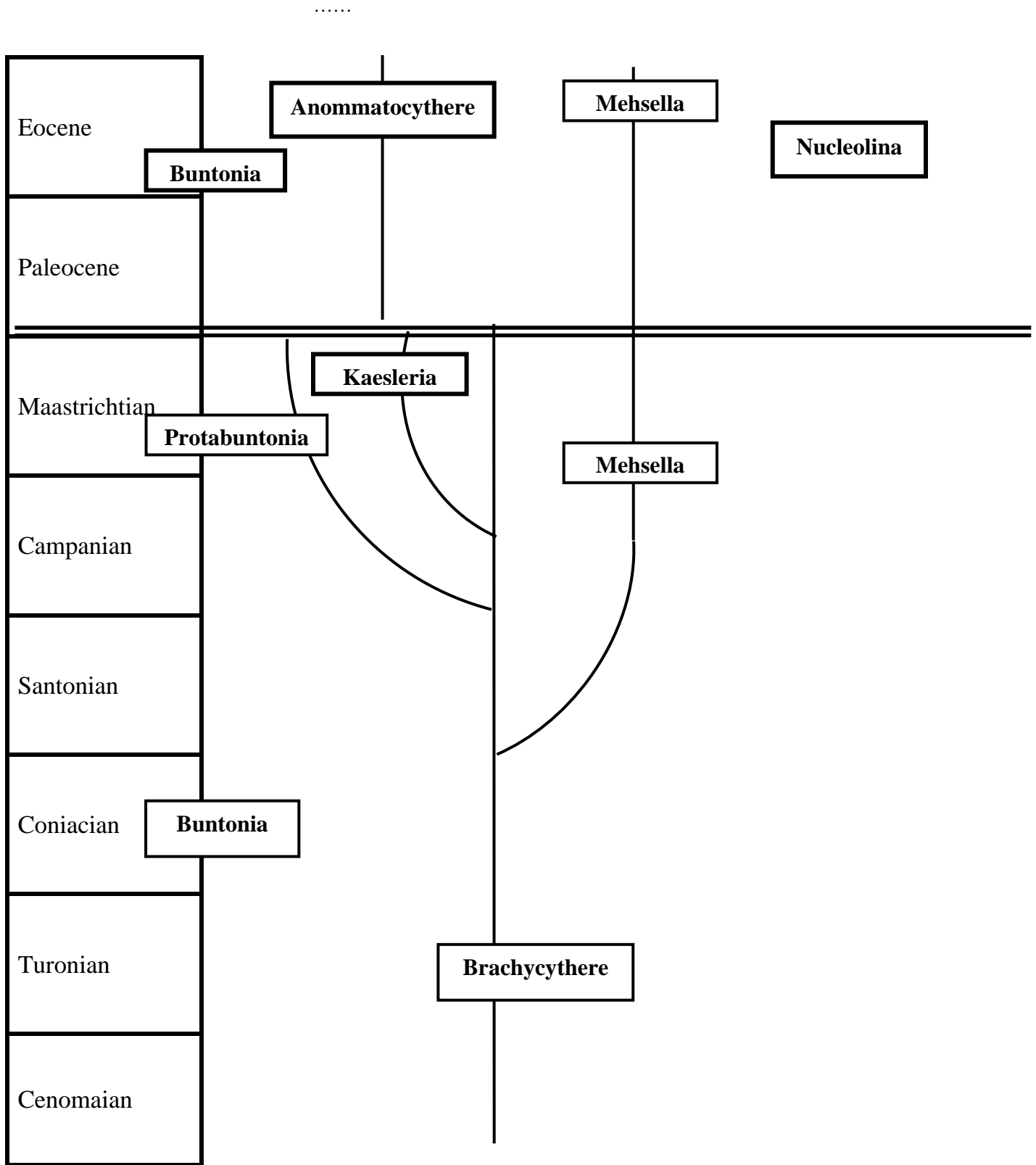
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Buntonia

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Species	References	Locality	Cretaceous				Tertiary		
			Con	Sant.	Camp	Maa.	Pal.	Eoc.	Olig.
<i>Buntonia</i> IRE	Grosdidier, 1973	Irn.	—	—					
C33	Grosdidier, 1973	Irn., O.	—		—				

<i>B. cretacea</i>	Grekoff, 1951	Irq.				—————			
<i>B. aalijensis</i>	Aziz, 2001	Irq.					—————		
<i>B. senounensis</i>	Apostolescu, 1969	Irq.					—————		
<i>B. khurmalensis</i>	khalf & Aziz, 2001	Irq.					—————		
<i>B. desrtensis</i>	Aziz, 2001	Irq.						—————	
<i>B. SP.1</i>	Yousif, 1987	Irq.						—————	
<i>B. jordanica</i>	Bassiouni, 1969	Irq.						—————	
<i>B. SP.2</i>	Yousif, 1987	Irq.							—————
<i>Brachycythere IRJ9</i>	Grosdidier, 1973	Irn,AD.O.	—————						
<i>B. IRJ. 10</i>	Grosdidier, 1973	Irn., AD.	—————						
<i>B. IRC 28</i>	Grosdidier, 1973	Irn.		—————					
<i>B. IRH 34</i>	Grosdidier, 1973	Irn.		—————					
<i>B. IRE 10</i>	Grosdidier, 1973	Irn.		—————					
<i>B. IRE 5</i>	Grosdidier, 1973	Irn.			—————				
<i>B. SP.1</i>	Al-Ubide, 1989	Irq.				—————			
<i>B. meta</i>	Al-Furiah, 1985	SA.				—————			
<i>B. arabica</i>	Al-Furiah, 1985	SA.				—————			
<i>B. glypta</i>	Al-Furiah, 1985	SA.				—————			
<i>B. shamlani</i>	Al-Furiah, 1985	SA.				—————			
<i>B. undosa</i>	Al-Furiah, 1985	SA.				—————			
<i>B. tumida</i>	Al-Furiah, 1985	SA.				—————			
<i>Mehsella IRJ 1</i>	Grosdidier, 1973	Irn	—————						
<i>M. IRC 23</i>	Grosdidier, 1973	Irn, AD	—————						
<i>M. IRE 17</i>	Grosdidier, 1973	Irn		—————					
<i>M. IRE 31</i>	Grosdidier, 1973	Irn			—————				
<i>Kaesleria trahea</i>	Al-Furiah, 1986	SA				—————			
<i>K. bilirata</i>	Al-Furiah, 1986	SA				—————			
<i>K. undolata</i>	Al-Furiah, 1986	SA.				—————			
<i>K. biventrilirata</i>	Al-Furiah, 1986	SA.				—————			
<i>K. faceta</i>	Al-Furiah, 1986	SA.				—————			
<i>Protobuntonia IRH28</i>	Grosdidier, 1973	Irn, Irq				—————			
<i>Nucleolina diluta</i>	Al-Furiah, 1980	SA.					—————		
<i>Anommatocythere porata</i>	Al-Furiah, 1983	SA.					—————		
<i>A. canistrum</i>	Al-Furiah & Siddique, 981	SA.						—————	
<i>A. SP.1</i>	John, 1970	Irq.						—————	
<i>A. SP.1</i>	Aziz, 1990	Irq.						—————	