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pseudotextularids rugoglobigerinids, globotruncanids
K/T

(K/T) (Thanetien)
polytaxic K/T
(ecological specialists)

(ecological generalist)

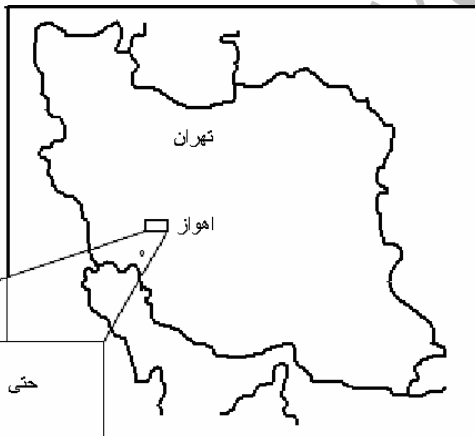
oligotaxic
hedbergellids, heterohelicids

K/T

pH

K/T

(upwelling)



()
() E: ° ' " N: ° ' "

(Thanetien)

K/T

K/T

()

(ecological specialists)

e.s.

HCl)

(

(HF)

thermocline

(ZnCl₂)

(Keller *et al.* 2002, Luciani 2002)

Globostruncanita stuarti *G. aegyptiaca* *Globostruncana arca*

Globostruncana Rosita fornicata *Rugoglobigerina rugosa*

Globostruncanita stuartiformis *Rosita contusa* *ventricosa*

K/T

(ecological generalists)

e.g.

Abathomphulus intermedius,)

(*Abathomphulus* cf. *mayaroensis*

Globorotalia trinidadensis,)

(*Globigerina* cf. *daubjergensis*

K/T

K/T

K/T

Keller *et al.*)

hedbergellids heterohelicids

(2002, Luciani 2002

K/T

e.g. e.s.

(A)

pH

e.s.

e.s.

e.g.

(~~e.s~~/~~e.g~~)

e.g.

e.s.

ecological generalist ecological specialist

e.g.

(Keller *et al.* 2002, Luciani 2002)

Sarjeant 1974, Eshet *et al.* 1994, Stuben *et al.*)

e.g./e.s. (2002

(osmotic)

e.s.

e.g.

e.g.

(Dodd & Stanton 1990, Brasier 1980, Lipps *et al.* 1979)

(P)

K/T

(N)

e.s.

K/T

e.g. e.s.

e.g.

K/T

K/T

K/T

(*Pseudotextularia elegans*. Globotruncanids) e.s.

(Si)

(N)

(P)

(Olsson *et al.* 2001)

Globigerina

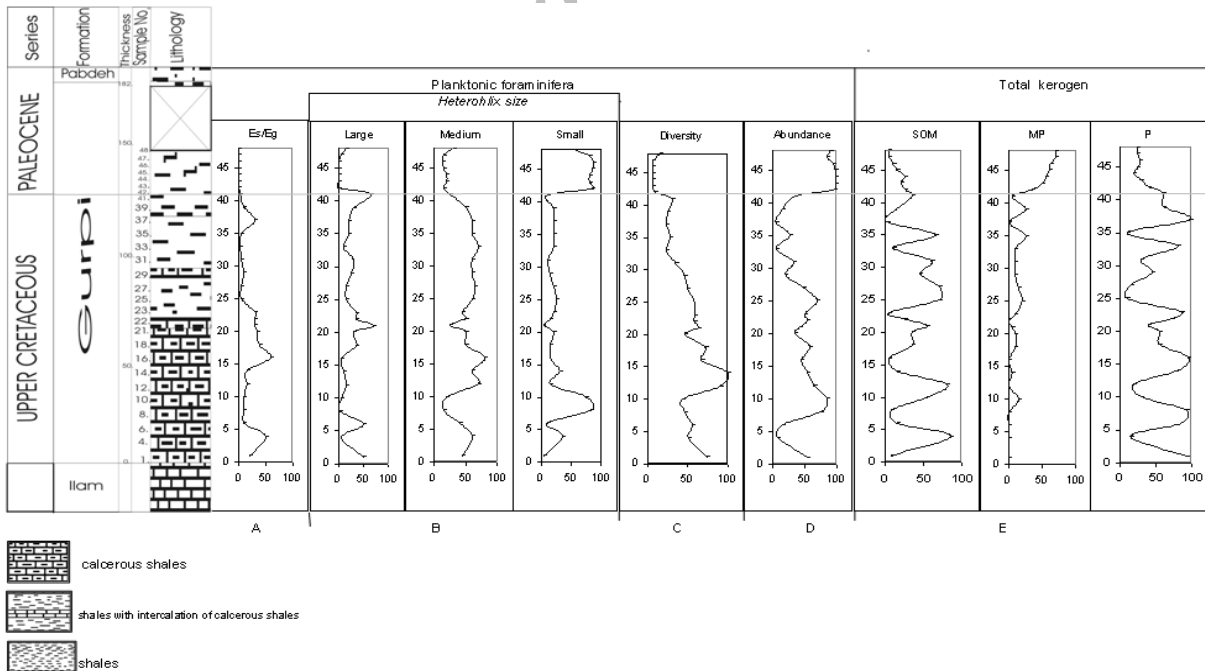
Dodd &)

(Kandiano & Bauch 2002, Keller *et al.* 2002,

(Stanton 1990

(Abramovich *et al.* 2003 , Keller 1993

upwelling



es/eg

:A

Heterohelix

:B

((polytaxic, oligotaxic simple diversity)

:C

(Abundance)

:D

(Total kerogen)

:E

e.s.

() generalist

() thermocline

Adatte *et al.* 2002,)

(Keller *et al.* 2002, Keller *et al.* 1995

Heterohelix

e.g. Braisser 1980, Lipps *et al.*)

e.s. (1979

e.g. K/T

()

(small)

(medium)

(large)

Rugoglobigerina

K/T

Pseudotextularia

(B)

K/T

e.g.

e.s.

K/T

K/T

(Barsier 1980)

(Lipps *et al.* 1979)

K/T

(N)

(p)

(Brasier1980, Schmidt 2000)

K/T

intraspecific (

Globigerina spp

(Kandiano *et al.* 2002, Schmidt *et al.* 2004)

(e.s./e.g.)

e.s

(specialist)

K/T

e.s./e.g.

specialist

(Schmidt *et al.* 2004)

CaCO₃

e.g.

interspecific (

e.g.

ca

() thermocline

thermocline

(Schimdt *et al.* 2004)

(Abundance)

e.g.

(Grant Gross 1987)

e.s.

Leckie)

(polytaxic , oligotaxic)

(1987

(simple diversity or species richness)

(CCD)

()

e.s.

(C)

(polytaxic)

Stuben *et al.* 2002, Hultberg &) (

K/T

Malmgren 1986, Shahin 1992, Caron *et al.* 1990, Leckie (D) (1987

e.g. (oligotaxic)

polytaxic

K/T

(oligotaxic)

() K/T

e.s./e.g.

e.g.

e.g.

Schimdt *et al.*)

(2004, Ottens & Nedarbrst 1992, Eijden 1995, Martinez 1989

(Total kerogen)

(MP)

(SOM)

(SOM)

(Tyson 1993)

(P)

(Abramovid & Keller 2002, Braisser 1980)

(Tyson 1993, Wavern & Visscher 1994)

K/T

()

upwelling

P MP SOM

(E)

Grant Gross)

() K/T

(1987

B

()

e.g.

e.s.

K/T

e.g.

(Dissolved oxygen)

(upwelling)

(Dissolve oxygen)

(upwelling)

)

e.g.

(

K/T

()

e.g.

e.s.

(Zonneveld *et al.* 1997)

K/T

(specialist)

(oligotaxic)

(polytaxic)

- e.g.

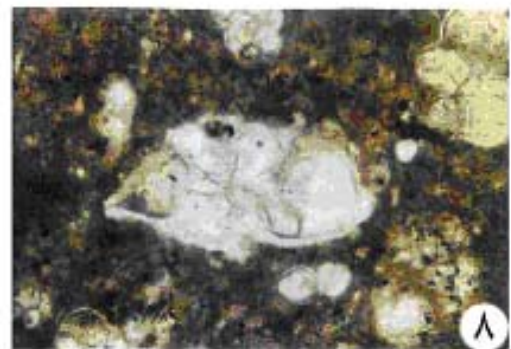
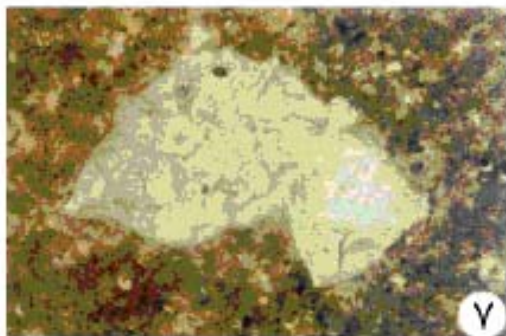
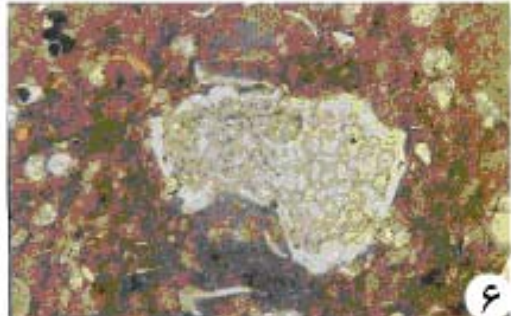
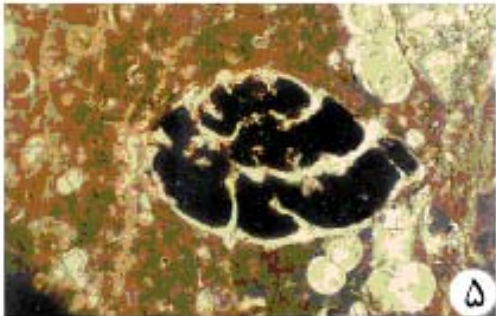
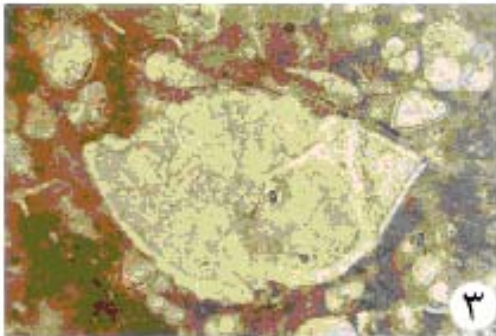
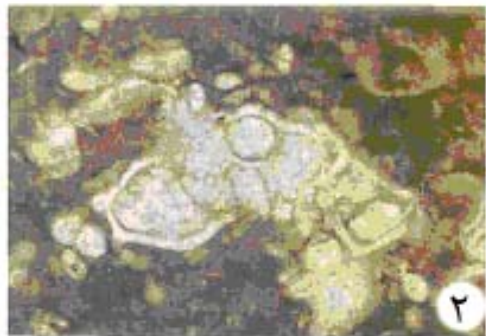
(upwelling)

K/T

Lysocline

pH

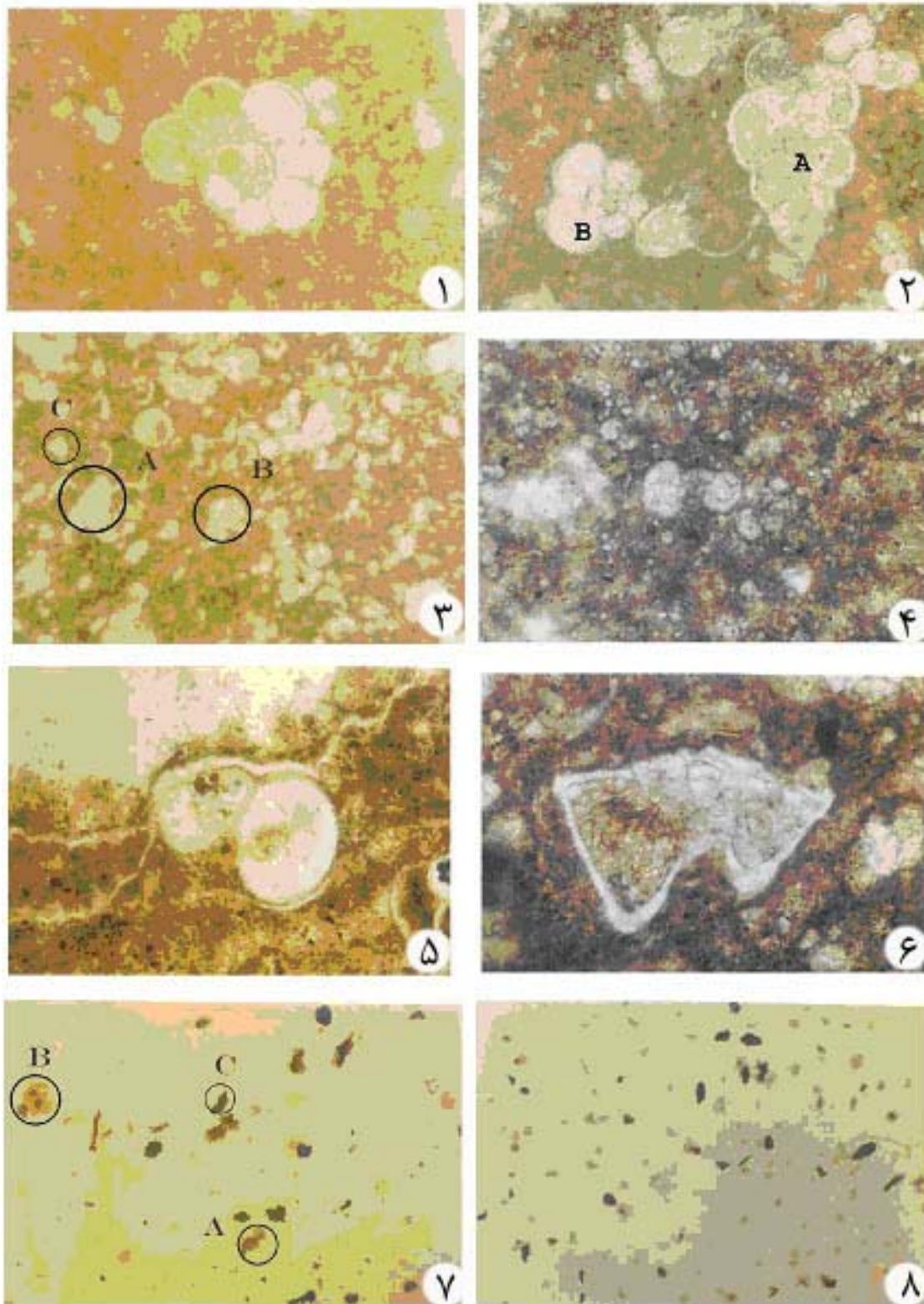
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Rosita fornicata Plummer - *Globotruncana calcarata* Cushman - :ecological specialists

Globotruncanita conica White *Globotruncanita stuartiformis* Dalbiez *Globotruncanita stuarti* De Lapparent

Praeglobotruncana citae Bolli - *Rosita contusa* Cushman *Globotruncana aegyptiaca* Nakkady



Hedbergella sp. (A), *Heterohlix* sp. (B) - *Hedbergella* sp. - :ecological generalists

Globigerina triloculinoides . *Globorotalia trinidadensis* Bolli . Large (A), Medium (B), Small (C) :*Heterohlix*

- . Total kerogen: SOM (A), MP (B), P (C) . *Morozovella velascoensis* Cushman . Plummer

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