

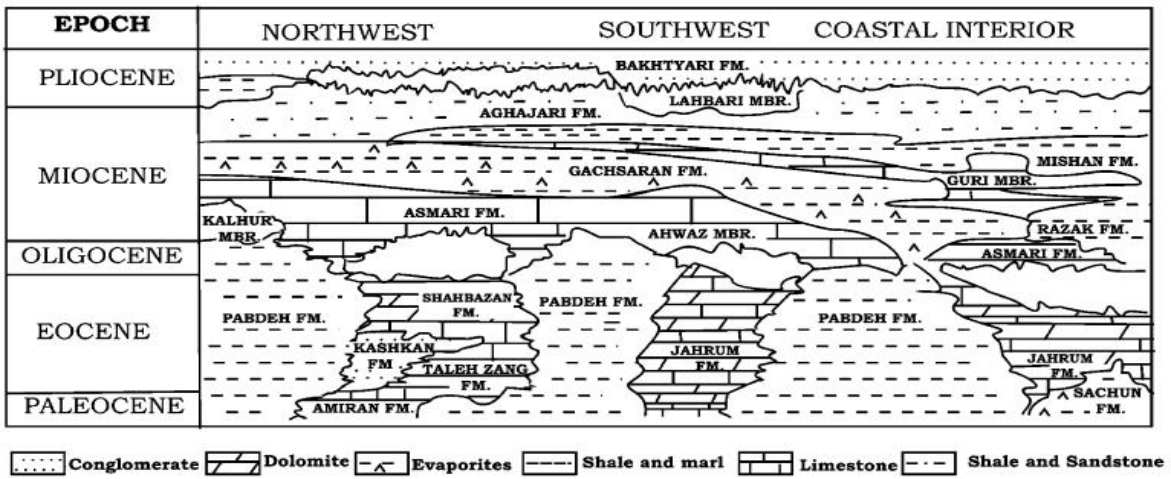
( )

Archive of SID

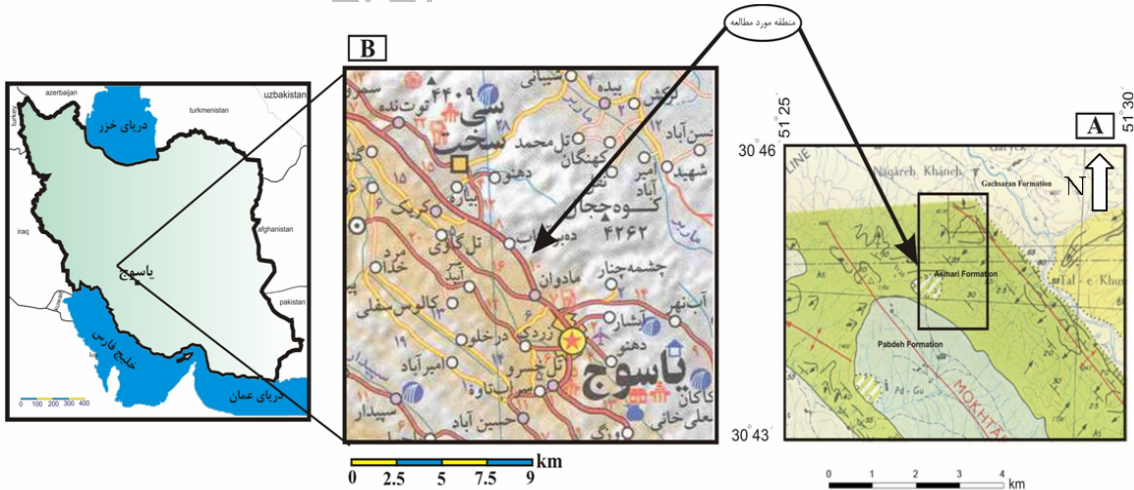
( ) ( )

**Biostratigraphy, Microfacies and Depositional Environment the Asmari Formation in North of the Mokhtar Anticline, Northwest Yasuj**





(Ala, 1982)



-B ( )

-A :

( )

( )

( )

( )

( ) ( )

( )

( ) ( )

( ) ( )

( ) ( )

( ) ( )

( )

( ) ( )

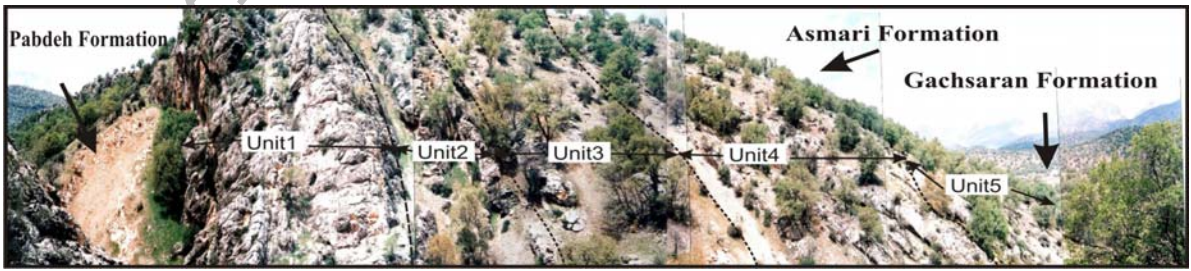
( )

( )

( )

( )

Archive of SID



Archive of SID

/

:( )

Lepidocyclina sp., Eulepidina elephantina, Eulepidina dilatata, Nephrolepidina tournoueri, Operculina sp., Operculina complanata, Ditrupa sp., Heterostegina sp., Rotalia sp., Rotalia viennoti, Amphistegina sp., Onychocella sp., Valvulinid sp., Pyrgo sp., Globogerina sp., Tubucellaria sp.

( )

( )

Lepidocyclina sp., Eulepidina elephantina, Eulepidina dilatata, Nephrolepidina tournoueri.

( )

Lepidocyclina spp.

) assemblage zone

Lepidocyclina- Operculina-

( )

( Ditrupa

( )

)

( /

( )

( )

(Lepidocyclina spp. assemblage zone)

/

/ /

:( )

:( )

Borelis sp., Borelis melo curdica, Dendritina rengi, Miogypsina cf. irregularis, Elphidium sp., Discorbis sp., Meandropsina iranica, Peneroplis thomasi, Peneroplis evolutus, Bigenerina sp., Rotalia sp., Schlumbergerina sp., Valvulinid sp., Miogypsinoidea sp., Triloculina trigonula, Pseudotaberina malabarica, Triloculinatri tricarinata, Austrotrillina howchini, Austrotrillina asmariensis, Archaias kirkukensis, Archaias asmaricus.

)

(

Borelis melo group-Meandropsina iranica assemblage zone

( )

Archive of SID

)

(

( )

( )

.( )

Archaias kirkukensis, Archaias asmaricus, Valvulinid sp., Schlumbergerina sp., Amphistegina sp., Miogypsinoidea sp., Miogypsina sp., Elphidium sp., Dendritina rangi, Meandropsina iranica, Borelis sp., Borelis pygmaea, Nephrolepidina tournoueri, Ditrupa sp., Faverina asmaricus, Austrotrillina howchini, Austrotrillina asmariensis, Peneroplis thomasi, Peneroplis evolutus, Planorbulina sp., Discorbis sp., Asterigerina sp., Tubucellaria sp., Lepidocyclina sp., Heterostegina sp., Shpaerogypsina sp., Rotalia sp., Rotalia viennoti.

:

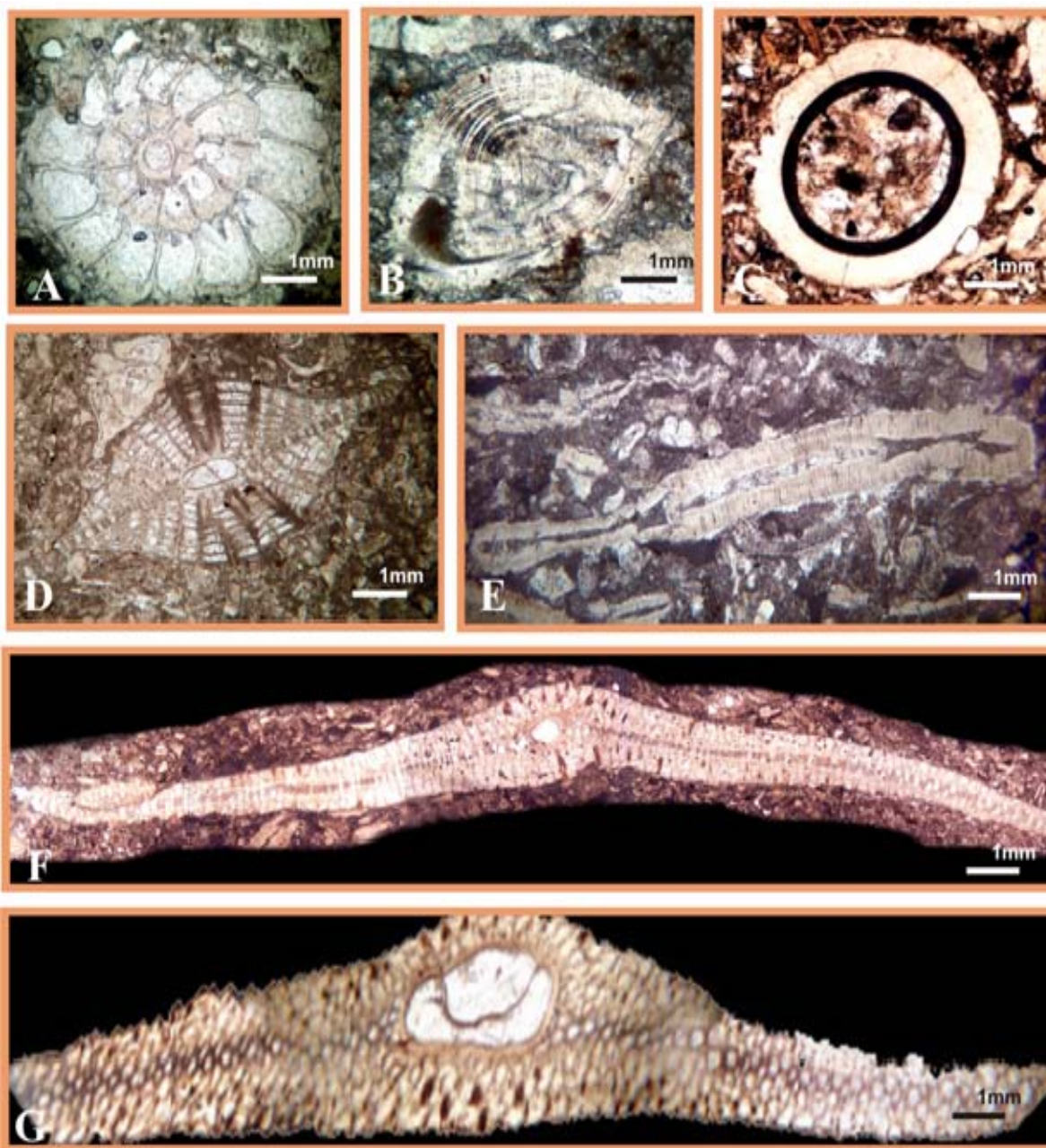
Valvulinid sp., Archaias kirkukensis, Archaias asmaricus.

)

(

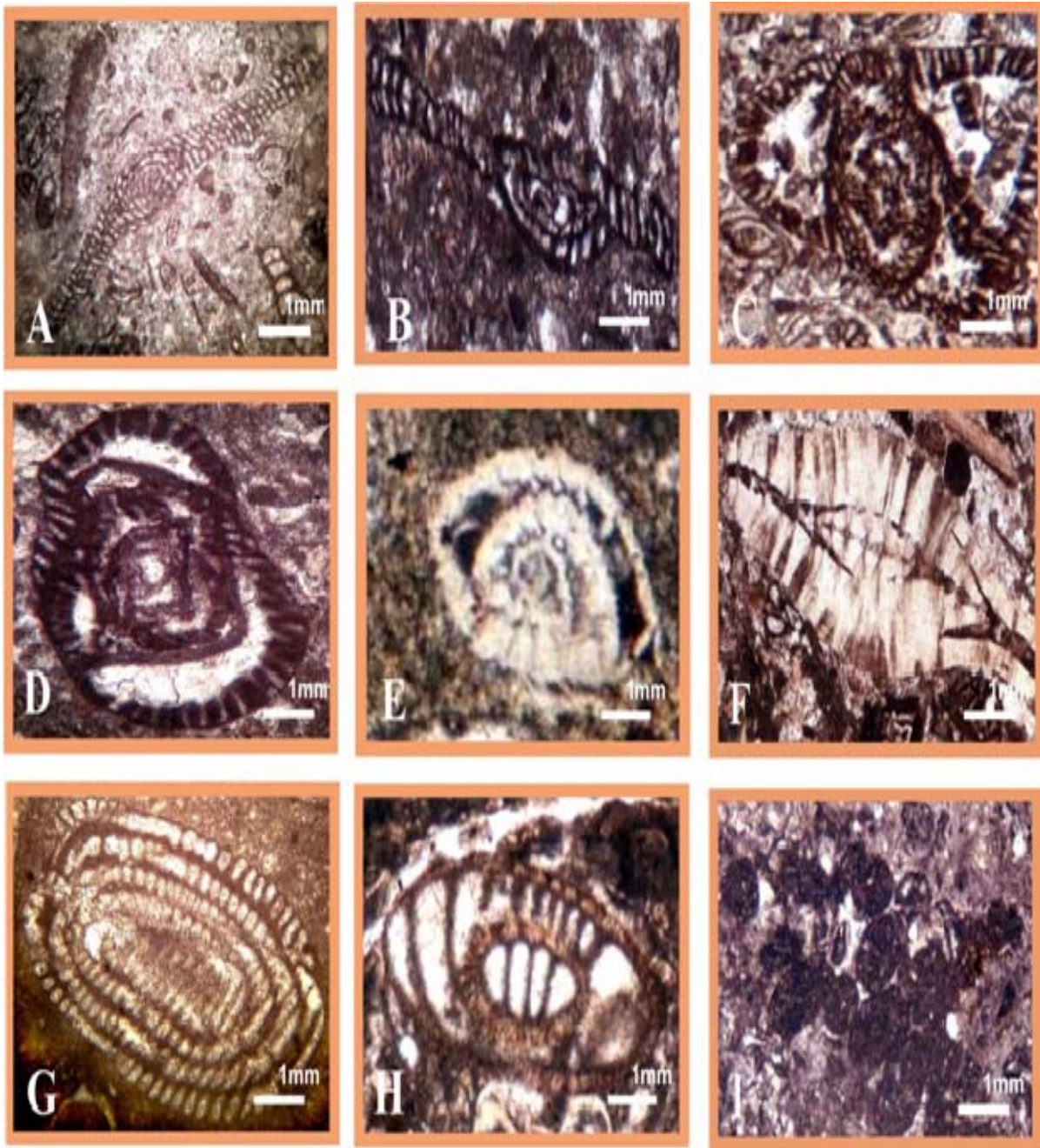
Miogypsinoidea-Archaias-Valvulinid sp.1 assemblage zone.

( )

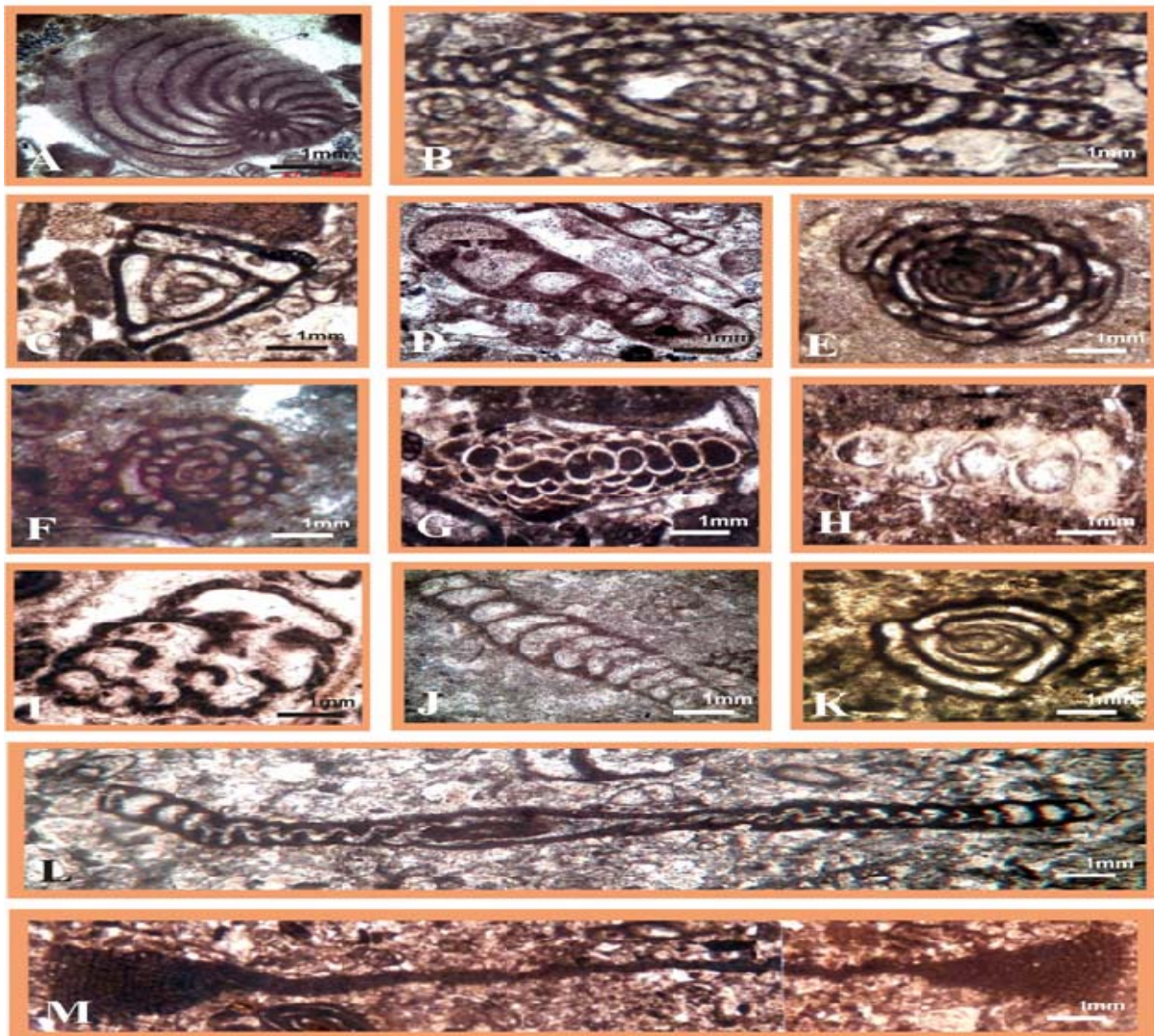


- A: *Rotalia viennoti*(Greig) 1935, X40  
 B: *Amphistegina* sp. X40  
 C: *Ditrupa* sp., X 25  
 D: *Nephrolepidina tournoueri*,(Lemoine and Douville) 1904, X40  
 E: *Operculina complanata*, X 40  
 F: *Eulepidina elephantine*,(Lemoine and Douville) 1904, X25  
 G: *Eulepidina dilatata*,(Lemoine and Douville) 1904, X25

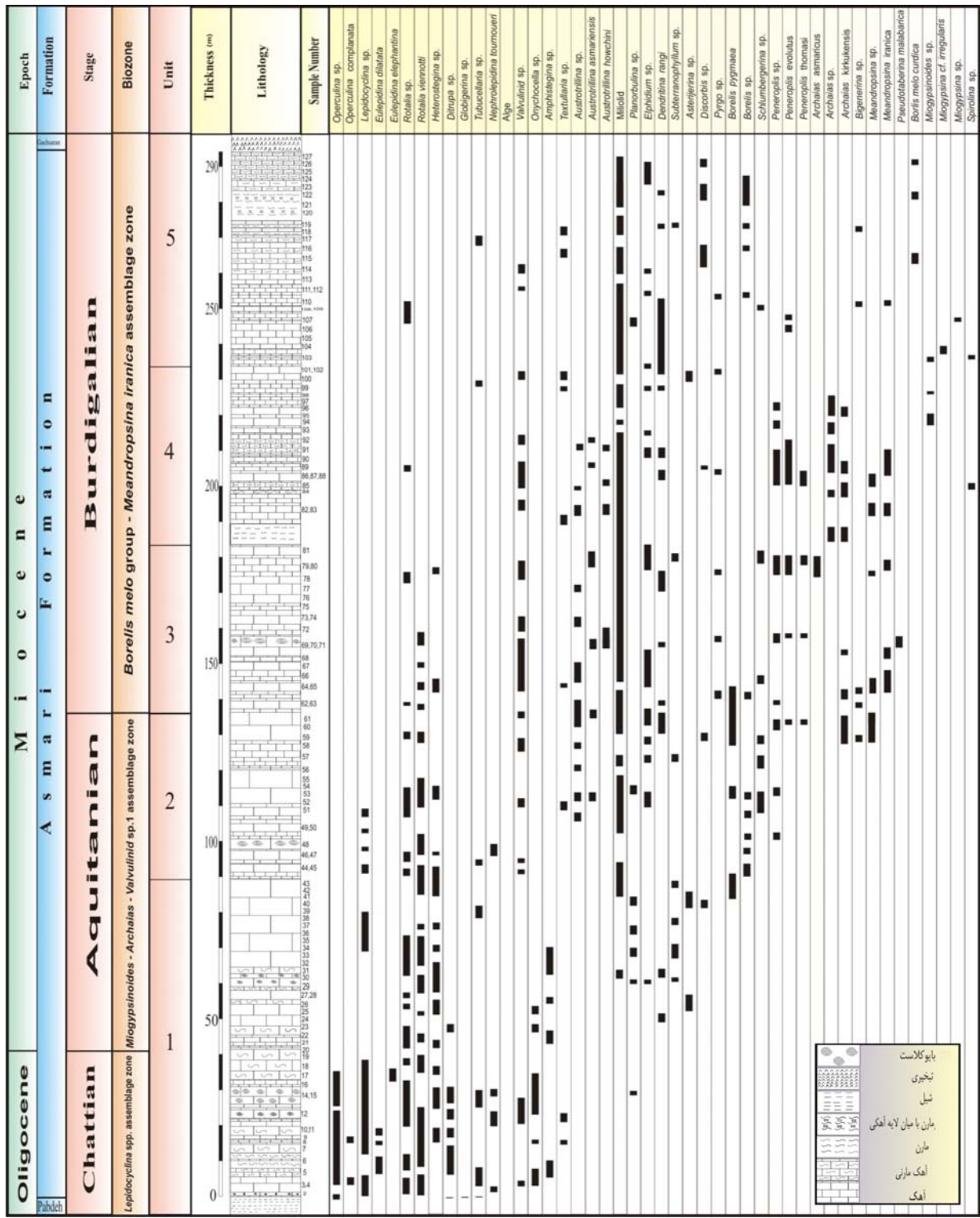




- A: *Archaias kurkukensis*, X25  
 B: *Archaias asmaricus*, X40  
 C: *Austrotrilina howchini*, X25  
 D: *Austrotrillina asmariensis*, X40  
 E: *Asterigerina* sp., X40  
 F: *Heterostegina* sp., X40  
 G: *Borelis pygmaea*, Hanzawa 1930, X100  
 H: *Elphidium* sp., X 40  
 I: *Faverina asmaricus*, X25



- A: *Peneroplis evolutus*, X100  
 B: *Peneroplis thomasi*, X25  
 C: *Triloculinatri trigonula*, d, Orbigny 1826, X40  
 D: *Dendritina rangi*, X100  
 E: *Borelis* sp., X40  
 F: *Borelis melo*(Fichtel and Moll) *curdica*(Reichel) 1937, X40  
 G: *Borelis pygmaea*, Hanzawa 1930, X100  
 H: *Miogypsinoides* sp., X40  
 I: *Valvulinid* sp., X40  
 J: *Bigenerina* sp., X40  
 K: *Triloculinatri tricarinata*, d, Orbigny 1826, X100  
 L: *Meandropsina iranica*, X40  
 M: *Pseudotaberina malabarica*, X25



( ) ( ) ( )

( )

( )

( )

(L) (B) (O)

( )

:(O)

(O1)

(O2)

(A )

(B )

( )

(04)

(Grain supported)

( D )

( )

O2

(03)

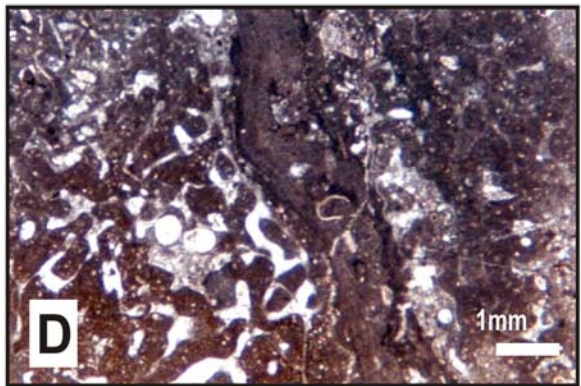
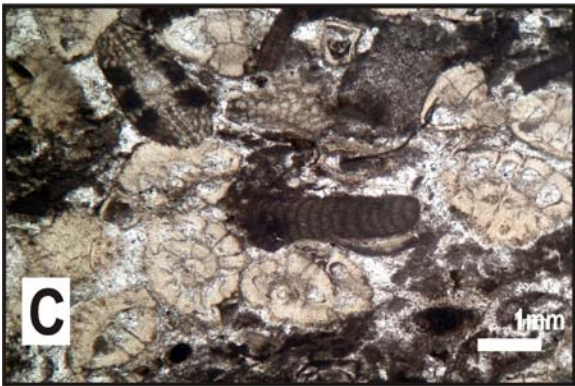
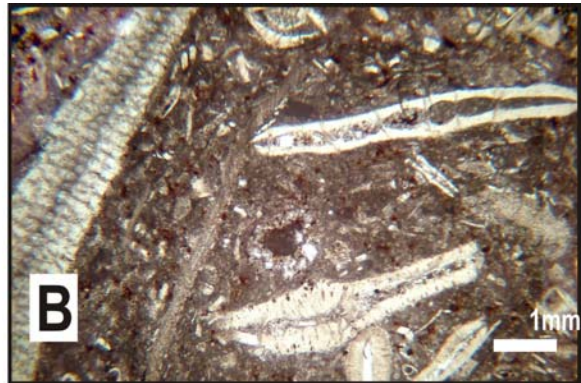
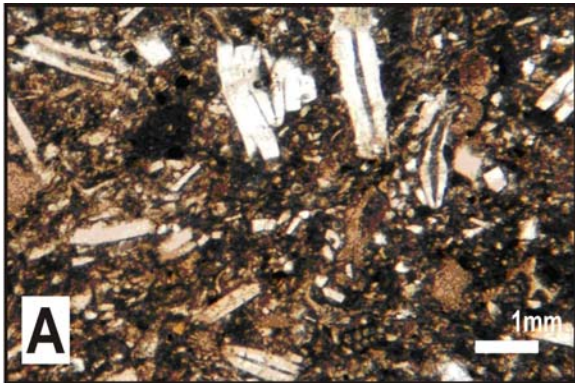
( )

( C )

( E )

( ) ( )

( )



( )  
 C (O2, X40) B (O1, X40) A  
 D (O3, X40) (O4, X25)  
 : (B)  
 (B1)  
 : (L)  
 ( )  
 (L1)  
 )  
 .( F )  
 .(

( )

(L3)

(H )

( )  
( )

(L2)

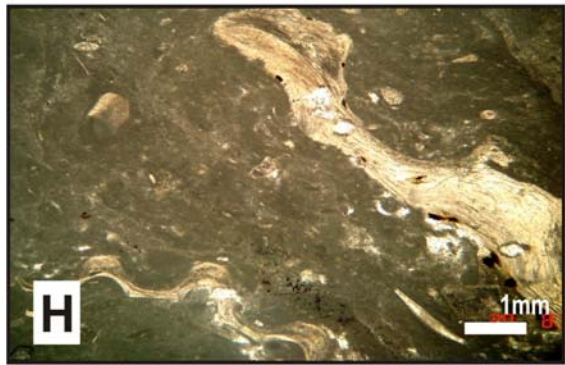
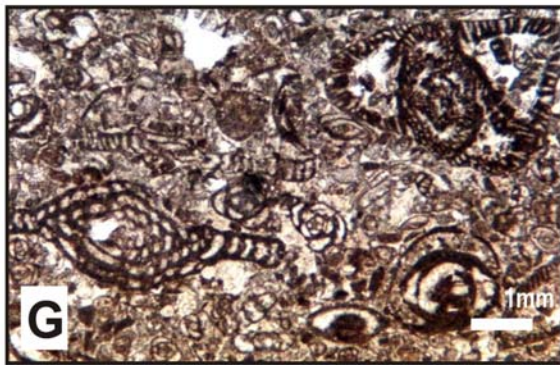
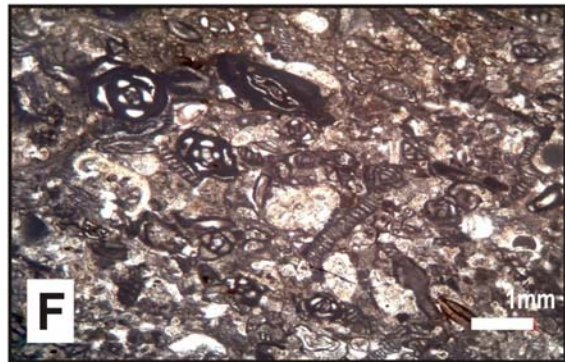
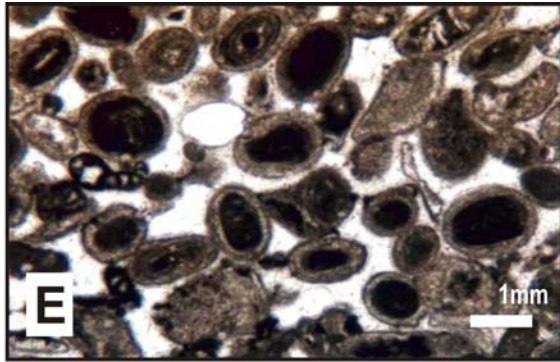
(L4)

(G )

)

(

( I )



( )  
 G (L1, X40) ( ) F (B1,X25) -E  
 - H (L2, X25) ( )  
 (L4, X25) I (L3, X40)



)  
) ( ( F

.( B )

.( )

( )

.( )

( B )

)

(

.( G )

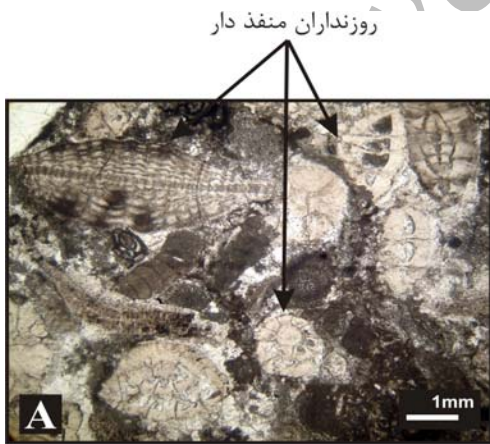
Archive of SID

( C )

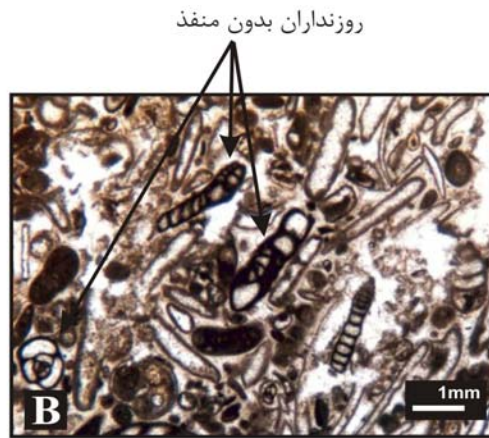
( )

( )

( )

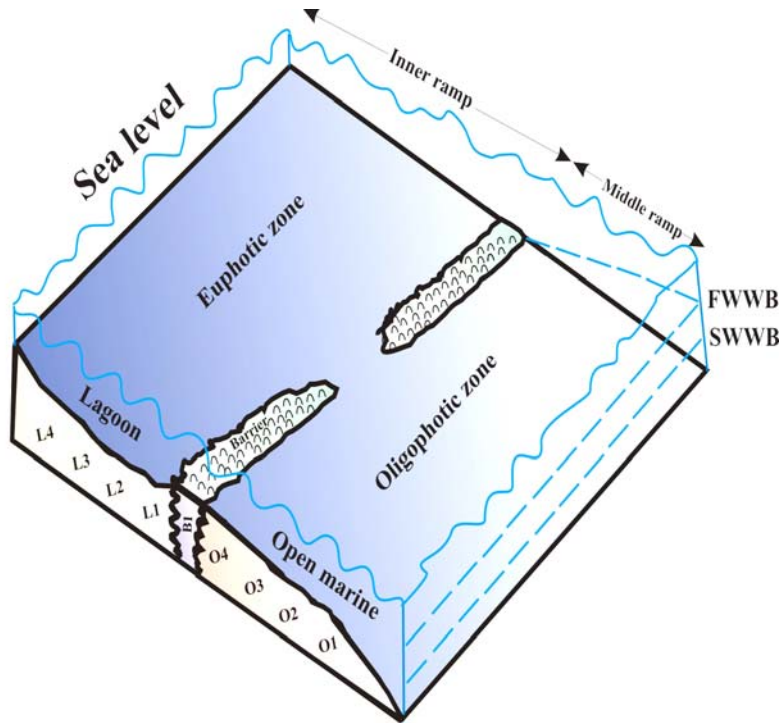


آب های گرم با درجه شوری نرمال  
( -B



آب های شور در نواحی لاگونی  
-A)





Arch

( )

:

( )

)

(

Lepidocyclina spp. assemblage zone

( )

:

:

( )

Miogypsinoides-Archaias-Valvulinid  
sp.1 assemblage zone

( )

:

( )

Borelis melo group-Meandropsina  
iranica assemblage zone



11- Amirshahkarami, M., H. Vaziri-Moghaddam, and A. Taheri, 2007, Sedimentary facies and sequence stratigraphy of the Asmari Formation at the Chaman-bolbol, Zagros basin: *Jornal of Earth Science*, v. 29, p. 947-959.

12- Beavington-Penney, S. J. and A. Racey, 2004, Ecology of extant Nummulitids and other larger benthic foraminifera, applications in Palaeoenvironmental analysis: *Earth-Science*, v.67, p. 219-265.

13- Busk, H. G., and H. T. Mayo, 1918, Some notes on the geology of the Persian oilfields, *J. Inst. Petrol. Tech.*, no. 5, v. 17, p. 5 – 26.

14- Carozzi, A. V., 1989, Carbonate rocks depositional model: Pentice Hall Newjersy, 604p,

15- Corda, L., and M. Brandano, 2003, A photic zone carbonate production on a Miocene ramp, Central Apennines, Italy: *Sedimentary Geology*, no.161, p. 55-70.

16- Dunham, R. J., 1962, Classification of carbonate rocks according to depositional texture. In: Ham, W. E.(Ed.): *Classification of Carbonate Rocks: Am. Ass. Petrol. Geol. Mem.*, 1, p. 108 - 121.

17- Drooger, C. W., 1993, Radial Foraminifera: morphometrics and evolution: *Verh. K. Ned. Akad. Wet. Afd. Natuurkd.*, 1e Reeks, v. 41, 242 p.

18- Embery, A. F., and Klovan, J. E., 1971, A Late Devonian reef tract on Northeastern Banks Island, NWT: *Canadian Petroleum Geology Bulletin*, v. 19, p. 730-781(revision of Dunham classification).

19- Fichtel, L., J. P. C. Moll, 1937, *Testacea microscopica, aliaque minuta ex generibus Argonauta et Nautilus, ad naturom picta et descripta (Microscopische und andere klein Schalthiere aus den geschlechtern Argonaute und Schiffer)*, Vienna: Camesina.

20- Flugel, E., 2004, *Microfacies of carbonate rocks, analysis interpretation and application*, Springer-Verlag Berlin Heidelberg, 976 p.

21- Geel, T., 2000, Recognition of stratigraphic sequences in carbonate platform and slope deposits: empirical models based on microfacies analysis of Palaeogene deposits in southeastern

( )

9- Adams, T. D., and F. Bourgeois, 1967, Asmari biostratigraphy: Geological and Exploration, IOOC Report, no. 1074, unpublished.

10- Ala, M. A., 1982, Chronology of trap formation and migration of hydrocarbons in Zagros sector of southwest Iran: *AAPG Bull.* 66, p. 1536 – 1542.

Palaeoclimatology, Palaeoecology, v. 179, p. 43 - 56.

33- Seyrafian, A., 2000, Microfacies and depositional environment of the Asmari Formation at Dehdez area: Carbonates and Evaporites, v. 15, no. 2, p. 121 - 130.

Seyrafian, A., H. Vaziri, and H. Torabi, 1996, Biostratigraphy of the Asmari Formation, Burujen area, Iran: J. Sci., I. R. Iran, v. 7, no. 1, p. 31 - 48.

34- Seyrafian, A., and A. Hamedani, 1998, Microfacies and depositional environment of the Upper Asmari Formation(Burdigalian), north-central Zagros Basin, Iran: N. Jb. Geol. Palaont. Abh., no. 210, p. 129 - 141.

35- Seyrafian, A., and A. Hamedani, 2003, Microfacies and paleoenvironmental interpretations of the Lower Asmari Formation(Oligocene), north-central Zagros Basin, Iran: N. Jb. Geol. Palaont. Mh., no. 3, p. 164 - 174.

36- Seyrafian, A., and A. R., Mojikhalifeh, 2005, Biostratigraphy of the Late Paleogene-Early Neogene succession, North-central border of the Persian Gulf: Carbonates and Evaporites, v. 20, no. 1, p. 82 - 90.

37- Thomas, A. N., 1948, The Asmari Limestone of southwest Iran: AIOC Report, no. 706,(unpubl).

38- Van Boecha, H. D. E., Lees, G. M., and Richardson, F. D. S, 1924, Contribution to the stratigraphy and tectonic of Iranian ranges. - The structure of Asia, London: 85-177.

39- Vaziri-Moghaddam, H., M. Kimiagari, and A. Taheri, 2006, Depositional environment and sequence stratigraphy of the Oligo- Miocene Asmari Formation in SW Iran: Facies, v. 52, p. 41-51.

40- Wells, A. J., 1967, Lithofacies and Geological history of lower Tertiary sediments in Southwest Iran IOOC Report no. 1108,(unpub.).

41- Wilson, J. L., 1975, Carbonate Facies In Geologic History: New York, Springer - Verlag, 471 p.

42- Wynd, J. G., 1965, Biofacies of the Iranian oil consortium agreement area: IOOC Report, no. 1082, 40 Plates, 80 p., unpublished.

Spain: Palaeogeography, Palaeoclimatology, Palaeoecology, no. 155, p. 211 - 238.

22- Greig, D. A., 1935, *Rotalia viennoti* an important foraminiferal species from Asia Minor and Western Asia, Journal of Paleontology, p. 523 - 526.

23- Hanzawa, S., 1930, Note on Foraminifera found in the lepidocyclina limestone from pabehusan, Java. Sci. Rep. Tohoka Imp. Univ., Sendai, S, 2,(Geol), 14(1): 85 - 95.

24- Jalali M. R. 1987, Stratigraphy of Zagros Basin. -National Iranian Oil Company, Expl. And Prod. Div. Report, no. 1249 and 1072.

25- James, G. A., and J. G. Wynd, 1965, Stratigraphic nomenclature of Iranian oil consortium agreement Area: Am. Assoc. Petrol. Geol. Bull., v. 49, P. 2182- 2245.

26- Lees, G. M., 1933, The reservoir rocks of Persian oil fields. -Am. Assoc. Petrol. Geol. Bull., v. 17, no. 3, 229-240.

27- Lemoine, P., Douville, R., 1904, Sur Le Genre *Lepidocyclina* Gumbel: Societe Geologique de France, Memoires Paleontologie, Paris 12, fasc. 2(32), 5 - 41.

d , Orbigny, A., 1826, Tableau methodique de la classe des cephalopodes, Annales des Sciences Naturelles v. 7, p. 245-314.

28- Pomar, L., 2001, Ecological control of sedimentary accommodation: evolution from carbonate ramp to rimmed shelf, Upper Miocene, Balearic Islands: Palaeogeogr., Palaeoclimatol., Palaeoecol., v. 175, p. 249 - 272.

29- Rasser, M. W., Scheibner, C. and Mutti, M. , 2005, A palaeoenvironmental standard section for early Ilerrdian tropical carbonate factories,(Corbieres, France, Pyrenees, Spain): Facies, 51, 217-232.

30- Reichel, 1936-1937, Etude sur les alveolies Soc. Paleont Suiss Mem. 57 and 59.

31- Richardsons, R. K., 1924, The geology and oil measures of southwest Persia: J. Inst. Petrol. Tech., v. 10, no. 43, p. 256 - 283.

32- Romero, J., E. Caus and J. Rosell, 2002, A model for the palaeoenvironmental distribution of larger foraminifera based on late Middle Eocene deposits on the margin of the South Pyrenean basin(NE Spain): Palaeogeography,