New Documentation of The Indicative Maastrichtian Ammonite Menuites fresevillensis (Seunes, 1890a) from The Shiranish Formation, NW Iraq

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ABSTRACT

Menuites fresevillensis (Seunes, 1890a) is recorded and described for the first time from the Shiranish Formation (Late Campanian - Maastrichtian), NW Iraq. These diagnosis were made on the basis of planispiral involute shell and compressed whorl section (oxycone), with the mean ratio of whorl breadth to whorl height $(w_b:w_h)$ attaining 0.4. The shell is moderately ornamented by numerous ribs which mostly arise on the umbilical wall becoming strengthened toward small bullate.

توثيق جديد لاحد انواع الامونايت الدالة على المايسترختي Menuites fresevillensis (Seunes, 1890a) من تكوين شرانش شمال غرب العراق

الملخص

تم توثيق ووصف النوع (Seunes, 1890a) لاول مرة من تكوين المحافق المحافظ المحاف

INTRODUCTION

Shiranish Formation is first described by Henson, 1940 (cited in Bellen et al.,1959), its type section lies near the Shiranish Islam Village, northeast of Zakho City, North Iraq. This Formation consists mostly of marl and marly limstone and reaches about 228 meter thikness; representing offshore, open sea sediments of the late Campanian to Maastrichtian age as shown by the Foraminferal assemblages content.

^{*}Papers of The First Geological Conference / Mosul University

The studied specimens of ammonites were collected from the northern limb of stratigraphic successions of the Shiranish Sinjar anticline at level of the Formation, placed about 150 meter below the Shiranish /Sinjar contact. Accordingly, These beds were most probably part of the middle unit of this Formation (see also Maala, 1977).

Systematic Paleontology

Order	Ammonoidea	Zittle,1884
Suborder	Ammonitina	Hyatt,1889
Superfamily	Desmocerataceae	Zittle,1895
Family	Pachydiscidae	Spath,1922
Genus	Menuites	Spath,1922

Synonymy: -

1926	Anapachydiscus	Yabe and Shimizu
1926	Neopachydiscus	Yabe and Shimizu
1931	Besairieites	Collignon
1969	Cabbanoscaphites	Collignon

Type species: -

Ammonites menu Forbes, 1846, P.111, Pl.10, Fig.1, by original designation by Spath (1922, P.123).

> Menuites fresvillensis (Seunes, 1890a) Pl.1, Fig.4.

Synonymy: -

1890a	Pachydicus fresvillensis Seunes			
1890b	Pachydicus fresvillensis Seunes; Seunes			
?1890b	Pachydiscus auritocostatus Schluter; Seunes			
	Pachydiscus colligatus Von Binkhorst			
1894				
1986b	Time pare by the same of			
1986с				
1986d	Anapachydiscus fresvillensis (Seunes, 1890a); Kennedy			
1986	Anapachydiscus fresvillensis quiriquinae(Steinmann);Stinnesbeck			
1987	Anapachydiscus fresvillensis (Seunes, 1890a); Kennedy			
1993	Anapachydiscus fresvillensis (Seunes, 1890a); Ward and Kennedy			
Menuites fresvillensis (Seunes, 1890a); Kennedy and Hancock				

Types: -

Lectotype, by the subsequent designation of Kennedy, 1986, P.44,is the original of Seunes, 1890, plate 2(1), no. All 86 in the collections of the cole des Mines ,Paris, now housed in the Universitç Claude-Bernard, Lyon, and from the upper Maastrichtian Calcaire â Baculites of Fresville, Manche, France.

Material Examined:-

Two specimens preserved as external crushed molds were collected from the middle unit of Shiranish Formation, NW Iraq. These specimens were deposited in the Museum of the Department of Geology, Mosul University, Iraq.

Dimensions: -

The following measurments were made on the shell parameters of ammonite speciments, in order to illustrate the detail shell description. These measurable parameters are:-

D (mm)	· U (mm)	W_b (mm)	W_h (mm)	$\underline{\mathbf{W}_{\underline{b}}} : \underline{\mathbf{W}_{\underline{h}}}$
46	11	8	20	0.4

Shell diameter. D :

Umbilious diameter. II:

Whorl breadth. Wh: Whorl height. W_h :

Diagnosis:-

The shell coilling is of planispiral involute type with compressed whorl section (oxycone), and of $W_b:W_{\underline{h}}$ ratio attaining 0.4. The shell surface is ornamented by numerous ribs arise mostly on the umbilical wall becoming strengthened toward small bullate.

Description: -

Planispiral involute shell is about 46 mm in diameter, with moderately deep and broadly rounded shoulder umbilicus. The whorl section is compressed of an oxycone type having whorl breadth to whorl height ratio attaining 0.4 and with the whorl breadth below the midflank of the shell. The outer flanks are flattened with broadly rounded ventral side.

The shell is ornamented by numerous straight prorsiradiate ribs arising on umbilical wall becoming strengthen toward the small bullate, separated by one or two intercalated ribs which appear mostly on the venter and ventrolateral side of the shell making a wide convixty across the venter.

Discussion: -

Menuites fresvillensis (Seunes, 1890 a) is most closely resembles the Menuites terminus Ward and Kennedy, 1993 but the latter differs in having numerous ribs counting 60 per single whorl during the mid-life of the growth, versus 30-40, in Menuites fresvillensis. In addition, Menuites oralensis Cobban and Kennedy, 1993 differ from the studied species in the presence of the umbilical bullate which occur near the whorls, but disappear again on the mid way of the adult body chamber and their ribs appear on the early whorls too but weaken or disappear on the adapical part of the adult body chamber

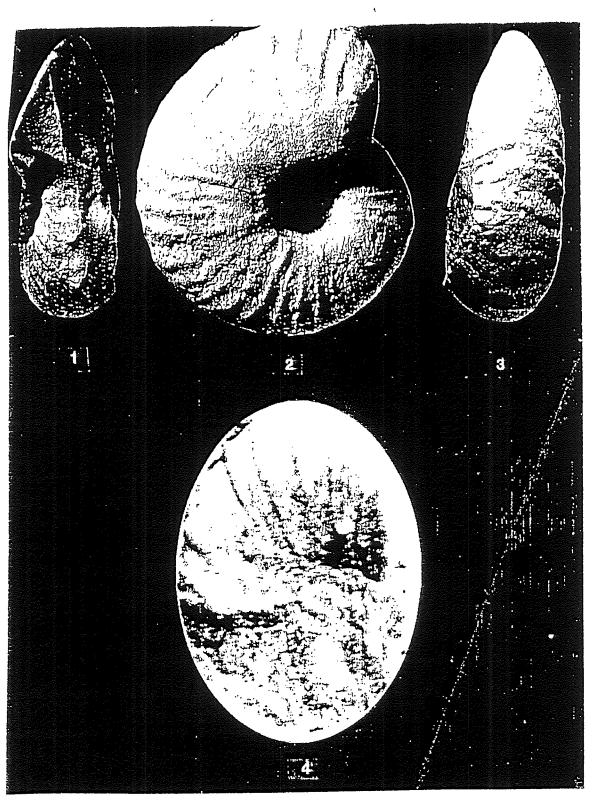
Occurrence: -

Menuites fresevillensis is Maastrichtian species, in addition to the present record, its occurs in France, Netherlands, Yugoslavia, The Armenian Republic, Southern India, Southern Africa, Madagscar, Western Australia, Chile and possibly Brazil.

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PLATE 1



Menuites fresvillensis (Seunes, 1890a)

Fig.1-3: The original of Seunes, 1890b, Pl.8, Fig.1, X1

Fig. 4: The present specimen. X2.3