

New data on the Upper Albian Ammonites from the Topola area (Central Serbia)

Marija Vuletić, Nevenka Đerić, László Bujtor, Katarina Bogičević, Draženko Nenadić



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NEW DATA ON THE UPPER ALBIAN AMMONITES FROM THE TOPOLA AREA (CENTRAL SERBIA)

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Key words: Ammonites, Early Cretaceous, Vardar Zone, Topola area

The Lower Cretaceous sediments that yielded various associations of ammonite fauna are well-known from several locations in Central Serbia. These sediments are exposed in the narrow belt of the Belgrade-Kosmaj-Topola-Gledić Mts. (Andelković, 1954). The association of the ammonite fauna described here, were found at the Kotražica locality, about 22 km SE of Topola (44°09'20.7"N; 20°41'19.5"E). The Cretaceous sediments of the wide study area are most probably part of the "Stragari facies" in the sense of Brković et al. (1980). The Lower Cretaceous sediments of the "Stragari facies" were deposited in diverse environments, and the succession of these sediments is in overturned position in most localities in the Topola-Gledić Mts. area (Brković et al., 1980). The Kotražica section is a well-known locality in the geological literature on the central part of Serbia. In this section, according to Andelković (1954), the Barremian–Aptian shallow-marine limestones overlay younger Upper Albian–Cenomanian glauconitic sandstones, marls, and marly sandstones. The Upper Albian to Lower Cenomanian sediments from the Kotražica locality consist of approximately 11 m of reddish Fe-bearing sandstones, reddish and yellow glauconitic sandstones, yellow and green sandstones, and sandy marls bearing a rich fauna of ammonites, belemnites, gastropods, and plant tissues. The ammonite association described here occurs in two distinctive horizons. The upper part of Upper Albian to Lower Cenomanian sediments from the Kotražica locality (Horizon I) consists of 8 m thick glauconitic sandstones and reddish Fe-rich sandstones. The following ammonite fauna is isolated: *Phylloceras* (*Hypophylloceras*) *velledae*, *Kossmatella agassiziana*, *Puzosia* (*Puzosia*) *mayoriana*, *Beudanticeras* sp., *Mortoniceras* sp., *Stoliczkaia* (*Stoliczkaia*) *dispar*, *Mariella* sp., and *Scaphites* (*Scaphites*) sp. According to Kennedy & Latil (2007), the presence of *Stoliczkaia* indicates Upper Upper Albian *Stoliczkaia dispar* Zone. The lower part of the succession (Horizon II) consists mainly of yellow glauconitic sandstones and green sandy marls and marly sandstones (3 m) with the following dominant fauna: *Kossmatella agassiziana*, *Puzosia* (*Puzosia*) *mayoriana*, *Mortoniceras* (*Subschloenbachia*) *perinflatum*, *Anisoceras perarmatum*, *Anisoceras* sp., *Idiohamites elegantulus*, *Mariella* sp., and *Ostlingoceras* cf. *puzosianum*, *Scaphites* (*Scaphites*) sp. The occurrence of *Mortoniceras* (*Subschloenbachia*) *perinflatum* indicates the Upper Upper Albian *Mortoniceras perinflatum* Zone (sensu Reboulet et al., 2018), The diverse ammonite assemblage from the Kotražica section provides new evidence for a *Mortoniceras perinflatum* ammonite Zone in the studied area.

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NOVI PODACI O GORNJOALBSKIM AMONITIMA OKOLINE TOPOLE (CENTRALNA SRBIJA)

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Ključne reči: Amoniti, Donja kreda, Vardarska Zona, Topola.

Asocijacije amonitske faune iz donjokrednih sedimenata poznate su na nekoliko lokaliteta u centralnoj Srbiji. Donjokredni sedimenti sa amonitskom faunom, prostiru se u veoma uskom pojasu od Beograda preko Kosmaja i Topole do Gledičkih planina na jugu (Anđelković, 1954). Opisane amonitske asocijacije, prikupljene su na lokalitetu Kotraža, oko 22 km JI od Topole (44°09'20.7"N; 20°41'19.5"E). Prema Brković i dr. (1980), kredni sedimenti šireg područja istraživanja, stvarani su različitim depozicionim sredinama i predstavljaju deo "Stragarskog razvića". Na većini lokaliteta, na području Topole i Gledičkih planina, donjokredni sedimenti stragarskog razvića javljaju se u inverznom položaju (Brković et al., 1980). Istraživano područje centralnog dela Srbije, na kome se nalazi lokalitet Kotraža je dobro poznato u geološkoj literaturi. Na ispitivanom delu terena, prema Anđelković (1954), baremsko-aptski plitkovodni krečnjaci leže preko mlađih gornjoalbsko-cenomanskih glaukonitskih peščara, laporaca i laporovitih peščara. Na lokalitetu Kotraža, sedimenti gornjeg alba i cenomana, debljine 11 m, predstavljeni su debelim crvenkastim gvoždjevitim peščarima, crvenkastim i žučkastim glaukonitskim peščarima, žučkasto-zelenim peščarima i peskovitim laporcima, u kojima je konstatovana bogata fauna amonita, belemnita, gastropoda i biljnog tkiva. Opisivane amonitske asocijacije prikupljene su iz dva različita horizonta gornjoalbsko-cenomanskih sedimenata. Gornji deo profila (Horizont I), predstavljen je sa 8 m debelim glaukonitskim i crvenkastim gvoždjevitim peščarima, iz kojih je izolovana sledeća amonitska fauna: *Phylloceras* (*Hypophylloceras*) *velledae*, *Kossmatella agassiziana*, *Puzosia* (*Puzosia*) *mayoriana*, *Beudanticeras* sp., *Mortoniceras* sp., *Stoliczkaia* (*Stoliczkaia*) *dispar*, *Mariella* sp., and *Scaphites* (*Scaphites*) sp. Prema autorima Kennedy & Latil (2007), prisustvo roda *Stoliczkaia* ukazuje na najviše delove alba - *Stoliczkaia dispar* Zone. Horizont II predstavlja donje slojeve profila, koji se uglavnom sastoje od 3 m glaukonitskih peščara i zelenkastih peskovitih laporaca i laporovitih peščara sa dominantnom faunom: *Kossmatella agassiziana*, *Puzosia* (*Puzosia*) *mayoriana*, *Mortoniceras* (*Subschloenbachia*) *perinflatum*, *Anisoceras perarmatum*, *Anisoceras* sp., *Idiohamites elegantulus*, *Mariella* sp., and *Ostlingoceras* cf. *puzosianum*, *Scaphites* (*Scaphites*) sp. Prisustvo vrste *Mortoniceras* (*Subschloenbachia*) *perinflatum* ukazuje na gornjoalbsku *Mortoniceras perinflatum* zonu (Reboulet et al., 2018) istraživanih sedimenata pa se može zaključiti da starost glaukonitskih peščara, peskovitih laporaca i laporoviti peščara lokaliteta Kotraža odgovara najvišim delovima gornjeg alba.

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