

Systematic ammonoid investigations at the Julian/Tuvalian boundary (Carnian, Upper Triassic) at Aşağıyaylabel (Taurus Mountains)

SUSANNE LUKENEDER & ALEXANDER LUKENEDER

Geological-Palaeontological Department, Natural History Museum Vienna, Burgring 7, 1010 Vienna;
E-mail: susanne.lukeneder@nhm-wien.ac.at

Systematic ammonoid investigations have been performed at a lower to upper Carnian (Upper Triassic) section at Aşağıyaylabel (Anatolia, Turkey). The outcrop generally represents an uppermost lower Carnian platform drowning-sequence (LUKENEDER et al., 2012). During this climate crisis, which is time-delayed (by about 2 million years) at Aşağıyaylabel in comparison to other localities of the Tethyan Realm, two stratigraphically meaningful ammonoid assemblages could be recognized within the Kasımlar Formation at Aşağıyaylabel. Whilst the older ammonoid assemblage still characterizes an early Carnian age (Julian 2), the stratigraphically younger assemblage already represents a late Carnian age (Tuvalian 1). Therefore the Julian/Tuvalian boundary, which has already been documented by a previous facies analysis (LUKENEDER et al., 2012), could be fixed once more within the Kasımlar Formation at Aşağıyaylabel. Furthermore, at the uppermost beds of the Carbonate member Unit C the occurrence of *Anasirenites bicarinatus* sp. nov. classifies these beds in more detail as Julian II/2. Altogether, 13 ammonoid genera and 14 ammonoid species, including 1 newly established genus and 3 newly established species, have been classified. Whilst the correlation of the ammonoid assemblages with other assemblages of the Tethyan Realm clearly indicate a Mediterranean-Tethyan-Andean character, the recently established genus *Kasımlarceltites krystyni* gen. et sp. nov. as well as the newly established species (*Klipsteinia disciformis* sp. nov. and *Anasirenites bicarinatus* sp. nov.) at the section Aşağıyaylabel, however, depicts local differences (LUKENEDER & LUKENEDER, subm.).

References

- LUKENEDER, S. & LUKENEDER, A. (submitted): A new ammonoid fauna from the Carnian (Upper Triassic) Kasımlar Formation of the Taurus Mountains (Anatolia, Turkey). – Palaeontology.
- LUKENEDER, S., LUKENEDER, A., HARZHAUSER, M., ISLAMOGLU, Y., KRISTYN, L. & LEIN, R. (2012): A delayed carbonate factory breakdown during the Tethyan-wide Carnian Pluvial Episode along the Cimmerian terranes (Taurus, Turkey). – Facies, **58**, 279-296, Erlangen.

ZOBODAT - www.zobodat.at

Zoologisch-Botanische Datenbank/Zoological-Botanical Database

Digitale Literatur/Digital Literature

Zeitschrift/Journal: [Berichte der Geologischen Bundesanstalt](#)

Jahr/Year: 2012

Band/Volume: [94](#)

Autor(en)/Author(s): Lukeneder Susanne, Lukeneder Alexander

Artikel/Article: [Systematic ammonoid investigations at the Julian/Tuvalian boundary \(Carnian, Upper riassic\) at Asagiyaylabel \(Taurus Mountains\). 15](#)