Paleontological Contributions

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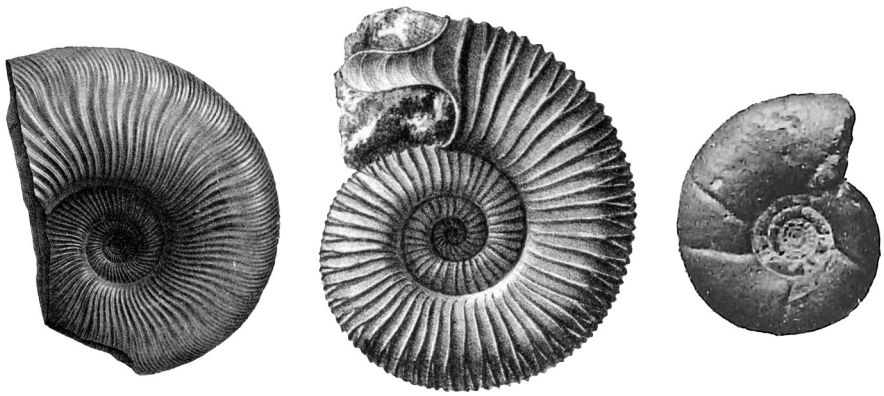

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Cover figure: Left to right, type specimens of *Stevensites, Zittelites,* and *Gyrophylloceras*

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STEVENSITES, ZITTELITES, AND *GYROPHYLLOCERAS,* NEW GENERIC NAMES PROPOSED FOR *STEVENSIA* ÉNAY, 2009, *ZITTELIA* TAVERA BENITEZ, 1985, AND *GYROPHYLLITES* WIEDMANN, 1963 (MOLLUSCA: AMMONOIDEA)

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ABSTRACT

Stevensites, Zittelites, and *Gyrophylloceras* are proposed as replacement names for the preoccupied ammonite genera *Stevensia* Énay, 2009, *Zittelia* Tavera Benitez, 1985, and *Gyrophyllites* Wiedmann, 1963, respectively.

Key words: Ataxioceratidae, Jurassic, Lithacoceratinae, Paraboliceratinae, Phylloceratidae.

On the occasion of the revision of the Jurassic ammonite volume of the *Treatise on Invertebrate Paleontology* currently in progress, the generic names *Stevensia* Énay, *Zittelia* Tavera Benitez, and *Gyrophyllites* Wiedmann were found to be preoccupied.

The genus *Stevensia* Énay, 2009, p. 144, was proposed for a group of Upper Jurassic ammonites from the Himalaya of central Nepal, and *Kossmatia desmidopthycha* Uhlig, 1910, p. 277, was originally designated as type species. It is preoccupied by *Stevensia* Cameron, 1932, p. 309, an insect (Coleoptera: Staphylinidae). To remove this primary homonym, *Stevensites* Énay gen. nov. is proposed herein as a replacement name, with *Kossmatia desmidopthycha* Uhlig, 1910, as type species.

The genus *Zittelia* Tavera Benitez, 1985, p. 114, was proposed for a group of Upper Jurassic ammonites from southern Spain, and the type species originally designated was *Ammonites eudichotomus* Zittel, 1868, p. 112. It is preoccupied by *Zittelia* Gemmellaro, 1869, p. 258, a mollusc (Gastropoda). To remove this primary homonym, *Zittelites* Énay gen. nov. is proposed herein as a replacement name with *Ammonites eudichotomus* Zittel, 1868, p. 112 "normalform," as type species.

The genus *Gyrophyllites* Wiedmann, 1963, p. 260, proposed for a group of Lower Cretaceous ammonites, with type species *Phylloceras lateumbilicatum* Pervinquière, 1907, p. 60, originally designated, is a junior homonym of *Gyrophyllites* Glocher, 1841, p. 322. Glocher's genus is an ichnotaxon (a trace fossil), an available genus-group name (ICZN, International Code of Zoological Nomenclature, 1999, p. 47, Article 42.2.1), which is widely used at the present time (e.g. Strzebonski & Uchman, 2015; Bayet-Goll & others, 2016). Accordingly, *Phylloceras* (*Gyrophylloceras*) Howarth new subgenus is proposed herein, with type species *Phylloceras lateumbilicatum* Pervinquière, 1907, p.60.

REFERENCES

Bayet-Goll, Avram, Paolo Monaco, Farah Jalili, Mohammad-Hossein Mahmudy-Gharaie. 2016. Depositional environments and ichnology of Upper Cretaceous deep-marine deposits in the Sistan Suture Zone, Birjand, Eastern Iran. Cretaceous Research 60:28–51.

Cameron, Malcolm. 1932. The Fauna of British India including Ceylon and Burma, Coleoptera. Staphylinidae 3. Taylor & Francis. London. xiv + 443 p., 4 pl.

Énay, Raymond. 2009. Les ammonites du Jurassique supérieur (Oxfordien–Tithonien) et la stratigraphie des Spiti Shales (Callovien supérieur à Tithonien) du Pays Thakkhola, Népal central. Documents des Laboratoires de Géologie, Lyo, 166:351 p., 33 text-fig., 150 tab., 52 pl.

Gemmellaro, G. G. 1869. Studii palontologici sulla Fauna del calcario a Terebratula janitor del Nord di Sicilia (continuzione). Giornale di Scienze naturale e Economiche, Palermo, vol. 5, fasc. 3–4, pt. 1 (Scienze naturale):257–264, pl. 4.

Glocher, E. F. 1841. Über die kalkführende Sandsteinformation auf beiden Selten der mittleren March, in der Gegend zwischen Kwassitz und Kremsier. Nova Acta Academiae Caesarea Leopoldino-Carolinae Germanicum Naturae Curiosorum 19 (2 supplement):309–334, pl. 4.

ICZN (International Commission on Zoological Nomenclature). 1999. International Code of Zoological Nomenclature. Fourth Edition. The International Trust for Zoological Nomenclature. London. 306 p.

Pervinquière, Léon. 1907. Etudes de Paléontologie tunisienne; I, Céphalopodes des Terrains secondaires. Carte Géologique de la Tunisie. F. R. de Rudeval, Paris. v + 439 pp., 27 pl.

Strezebonski, Piotr, & Alfred Uchman. 2015. The trace fossil Gyrophyllites in deep-sea siliciclastic deposits of the Istebna Formation (Upper Cretaceous–Palaeocene) of the Carpathians: An example of biologically controlled distribution. Paleogeography, Palaeoclimatology, Palaeoecology 426:260–274.

Tavera Benitez, J.-M. 1985. Los ammonites del Tithonico superior–Berriasense de la Zona Subbetica (Cordilleras Beticas). Tesis Doctoral, Universidad de Granada. 381 p., 49 pl.

Uhlig, Victor. 1910. The Fauna of the Spiti Shales. Memoirs of the Geological Survey of India, Palaeontologia Indica, Calcutta (series 15) 4(2):133–306, pl. 19–48A, 77–91.

Wiedmann, Jost. 1963. Unterkreide-Ammoniten von Mallorca. 2 Lieferung: Phylloceratina. Abhandlungen der Mathematisch-Naturwissenschaftlichen Klasse der Akademie der Wissenschaften und der Literatur, Mainz, 1963 (4):149–264, fig. 37–64, pl. 12–21.

Zittel, K. A. von. 1868. Palaeontologische Studien über die Grenzschichten der Jura und Kreide-Formation im Gebiete der Karpathen. Alpen und Apenninnen 1, Die Cephalopoden der Stramberger Schichten. Palaeontologische Mittheilungen der Bayerische Staatsamlung, München 2:1–VIII +1–118, 24 pl.