

## Upper Bathonian and lower Callovian ammonites from Chacay Melehué (Argentina)

Horacio Parent

*Acta Palaeontologica Polonica* 43 (1), 1998: 69-130

The upper Bathonian-lower Callovian ammonite fauna of Chacay Melehué was sampled through new exposures under close stratigraphic control. Two new faunal horizons are described: the *Iniskinites* *gulisanoi* horizon and the *Iniskinites* *crassus* horizon, lying in the lower and middle parts, respectively, of the *Steinmanni* Zone. The ammonite fauna contains some species not previously described: *Choffatia* aff. *neumayri* (Siemiradzki, 1899) [M&m], *Iniskinites* *evolutus* sp. n. [M], *Iniskinites* sp. A [M], *Eurycephalites* aff. *gottschei* (Tornquist, 1898) [M], *Xenocephalites* aff. *neuquensis* (Stehn, 1923) [m], and *Xenocephalites* sp. A [m]. *Oxycerites* *tenuistriatus* (de Grossouvre, 1888) is new for the Andean region. Several species are represented by large samples that allow descriptions and analyses to be made of the entire ontogeny and the characterization of the principal morphs within each species. It is then possible to propose sexual dimorphic correspondence between some nominal morphospecies. The successive species *Lilloettia* *steinmanni* (Spath, 1928), *Eurycephalites* *gottschei* (Tornquist, 1898), *E. rotundus* (Tornquist, 1898), and *E. extremus* (Tornquist, 1898) form a phyletic morphocline here interpreted as a mosaic heterochronocline.

**Key words:** Andes, Bathonian, Callovian, ammonites, systematics, biostratigraphy, evolution, heterochrony.

Horacio Parent [[infomax@satlink.com](mailto:infomax@satlink.com)], Laboratorio de Paleontología y Biocronología, Instituto de Fisiografía y Geología, Universidad Nacional de Rosario, Pellegrini 250, 2000 Rosario, Argentina.

This is an open-access article distributed under the terms of the Creative Commons Attribution License (for details please see [creativecommons.org](https://creativecommons.org)), which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.

 [Full text \(1,990.5 kB\)](#)