

Early Ordovician (Late Tremadoc) graptolites from the Mungok and the Yeonghung formations of the Yeongwol area, Korea

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Early Ordovician (Late Tremadoc) graptolites are procured from the four sections of the Yeongwol area, Korea: the Dojang-gol, the Ugg-gol, the Garae-jae and the Ppelchi-gol sections, which contain the boundary between the Mungok and the Yeonghung formations. The graptolites from these sections comprise nineteen species of seven genera: *Aspidograptus implicatus* (Hopkinson 1875), *Aspidograptus lotolatzensis* (Mu 1955), *Aspidograptus minor* Bulman 1934, *Callograptus* cf. *hopkinsoni* Bulman, 1934, *Callograptus radiatus* Hopkinson 1875, *Callograptus* cf. *catenoides* (Lin 1992), *Adelograptus* cf. *tenellus* (Linnarsson 1871), *Adelograptus antiquus* (Hall 1899), *Adelograptus psigraptoides* sp. nov. *Aorograptus victoriae* (Hall 1899), *Kiaerograptus* cf. *bulmani* (Thomas 1973), *Kiaerograptus* cf. *hengshanensis* Lin 1981, *Kiaerograptus kutchini* Jackson and Lenz 2003, *Kiaerograptus* cf. *pritchardi* (Hall 1899), *Kiaerograptus taylori* (Hall 1899), *Clonograptus aureus* Jackson 1973, *Clonograptus* cf. *rigidus* (Hall 1858), *Clonograptus* cf. *norvegicus* Monsen 1937 and *Paradelograptus elongatus* Lindholm 1991.

Collectively five graptolite zones; the *Anisograptus matanensis*, the *Adelograptus* cf. *tenellus*, the *Callograptus*, the *Adelograptus antiquus* and the *Aorograptus victoriae* zones are recognized in the sections. The boundary between the Mungok and the Yeonghung formations is established within the *Aorograptus victoriae* Zone of Late Tremadoc. The boundary between Arenig

and Tremadoc is presumably drawn somewhat above the late Tremadoc *Aorograptus victoriae* Zone on the lower part of the Yeonghung Formation.

The late Tremadoc *Aorograptus victoriae* Zone of the Yeongwol area is correlated to the homonymic zone of north and south China, Australasia, northeastern Canada, Bolivia and Scandinavia.