

Hypnophila malagana (Gastropoda, Pulmonata: Cochlicopidae): new to Morocco**M.B. SEDDON & D.T. HOLYOAK**

Department of Zoology, National Museum of Wales, Cathays Park, Cardiff, CF1 3NP, Wales

The range of *Hypnophila malagana* Gittenberger & Menkhorst, 1983, hitherto known from S Spain, is extended to include NW. Morocco.

Key words: Gastropoda, Pulmonata, Cochlicopidae, *Hypnophila*, distribution, Morocco.

In 1983 Gittenberger & Menkhorst described *Hypnophila malagana* as a new species from southern Spain (Gittenberger, 1983: 304). The first material of *H. malagana* came from five sites in the Province Malaga. Since then the range of this species has been extended to include five other provinces of southern Spain: Cadiz, Castilleon, Granada, Jaen and Valencia (Gittenberger, 1988).

In 1984 we made extensive collections of land-snails from Spain and Morocco. Additional records of *Hypnophila malagana* were obtained from sites in Spain, including live-collected specimens which are stored in spirit at the National Museum of Wales (Holyoak & Seddon Collection; NMWZ 1989.098). All sites were on bare rocky hillsides with sparse cover of vegetation, although one was partly shaded by *Pinus* trees.

We also found *H. malagana* in NW. Africa at Chechaouèn ($35^{\circ}10'N$, $5^{\circ}16'W$) on the north-west edge of the Rif mountains in Morocco. Here dead shells were sieved from debris in crevices of limestone crags of the hillside on the north-west side of the town (elevation c. 620 m a.s.l.). The site had sparse vegetation comprising grasses and herbs and was therefore very similar to those in Spain.

The shells from Chechaouèn are well within the ranges of size and shape of our material from southern Spain and match these well in all respects. They differ considerably from the dimensions of the single broken shell of *H. maroccana* (Mousson, 1873). This subfossil shell was apparently from a travertine deposit; the site is likely to be in a gorge on the northern edge of the High Atlas well to the south of the Rif mountains (Gittenberger, 1983: 305-306).

Thanks are due to the National Museum of Wales for assistance with the research programme in NW. Africa and to Mr. Marcel Holyoak for assistance with fieldwork.

REFERENCES

- GITTENBERGER, E., 1983. On Iberian Cochlicopidae and the genus *Cryptazeca* (Gastropoda, Pulmonata). — Zool. Meded. Leiden 57: 301-320.
—, 1988. New records of *Hypnophila malagana* from southern Spain (Gastropoda Pulmonata: Cochlicopidae). — Basteria 52: 146.