

exclude the extreme proximal or distal sections of the segment under consideration. The abundance and distribution of erect pilosity on the head includes only those hairs found on the lateral margin when the head is viewed in full face view (e.g. those shown in Fig. 22). Hairs present on the dorsal surface between the compound eyes and frontal carinae are excluded.

### Morphometric Characters

Size and shape characters were quantified and are reported as lengths or indices. Measurements were made with a stereo microscope using a dual-axis stage micrometer wired to digital readouts. All measurements were recorded in thousandths of millimetres, but are expressed here to the nearest hundredth. All head measurements (EL, EW, HL, HW) were taken in full face (dorsal) view without moving the head between measurements. Longitudinal mesosomal length measurements (PnL, ML, PpL) were taken in lateral view, parallel to a line ('measuring axis') drawn between the anterior-most point of the pronotal collar and the posterior-most point of the propodeal process dorsal of the petiolar insertion.

Figures showing the following measurements can be found in Shattuck (1993): EL, EW, HL, HW, ML, PnL, PpL and SL.

- CI Cephalic index:  $HW/HL$ .
- EL Maximum eye length measured in full face view.
- EW Maximum eye width measured in full face view.
- HL Maximum head length in full face view, measured from the anterior-most point of the clypeal margin to the midpoint of a line drawn across the posterior margin of the head.
- HTL Maximum length of hind tibia, excluding the proximal part of the articulation which is received into the distal end of the hind femur (Fig. 4).
- HW Maximum head width in full face view, excluding eyes.
- ML Mesonotal length measured from the pronotal-mesonotal suture to the metanotal groove parallel to the measuring axis (see also above).
- PnL Pronotal length measured from the anterior edge of the pronotal collar to the pronotal-mesonotal suture parallel to the measuring axis (see also above).
- PpL Propodeal length measured from the metanotal groove to the posterior-most point of the petiolar insertion parallel to the measuring axis (see also above).
- REL Relative Eye Length:  $EL/HW$ .
- SI Scape index:  $SL/HW$ .
- SL Length of the scape (first antennal segment) excluding the basal radicle.

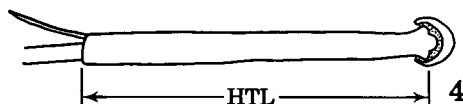


Fig. 4. Method used to determine hind tibial length (HTL) during this study.

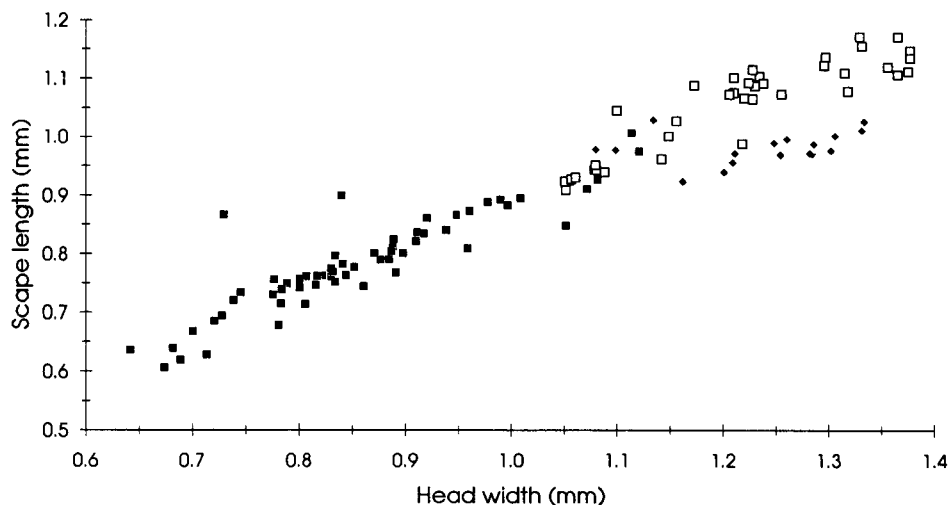


Fig. 5. Distribution of SL and HW measurements (in millimetres) among 16 species and 113 individuals of the *I. calvus* group. ■, *I. calvus* complex; □, *I. rufoclinus* complex; ◆, *I. viridigaster* complex.