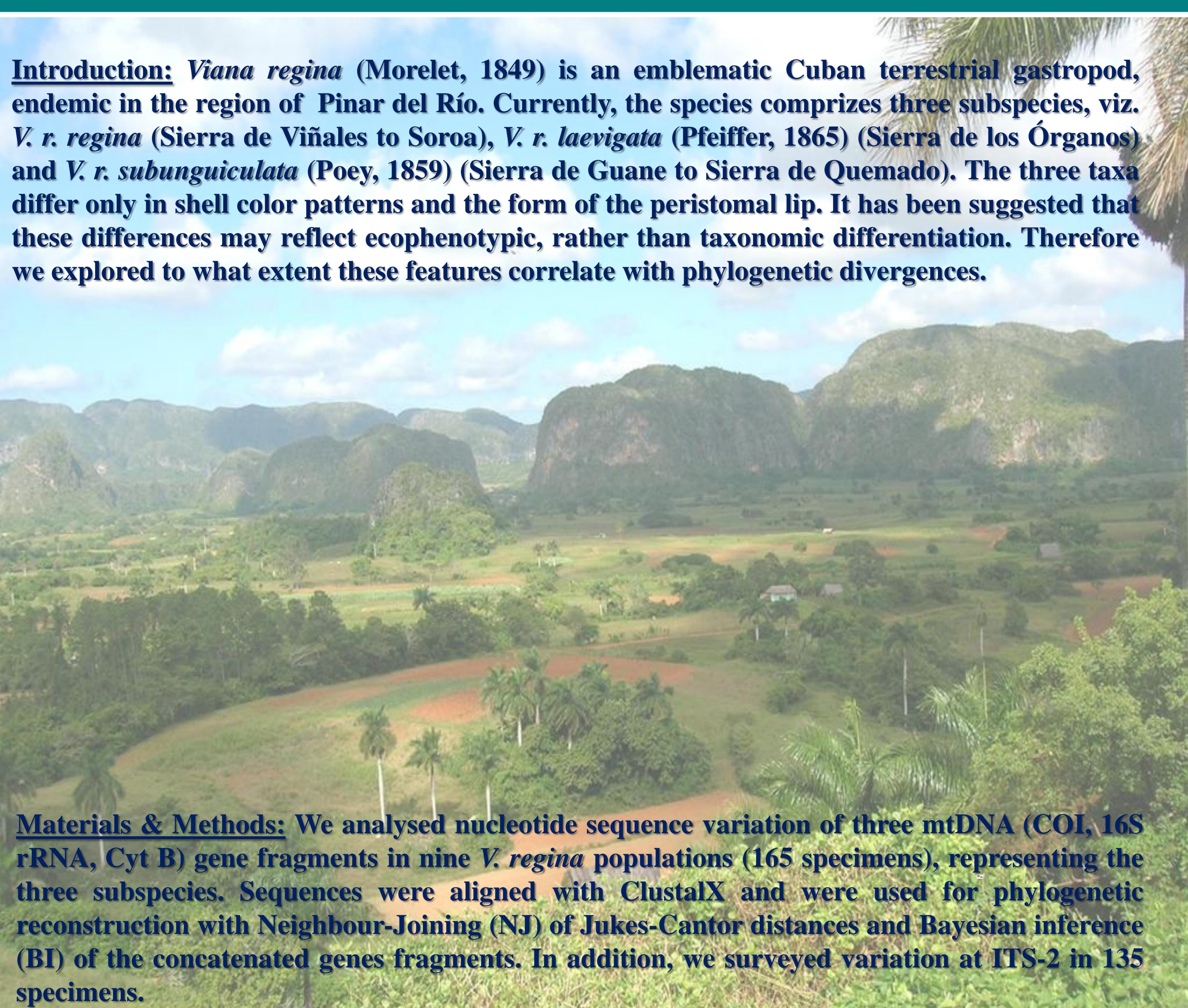


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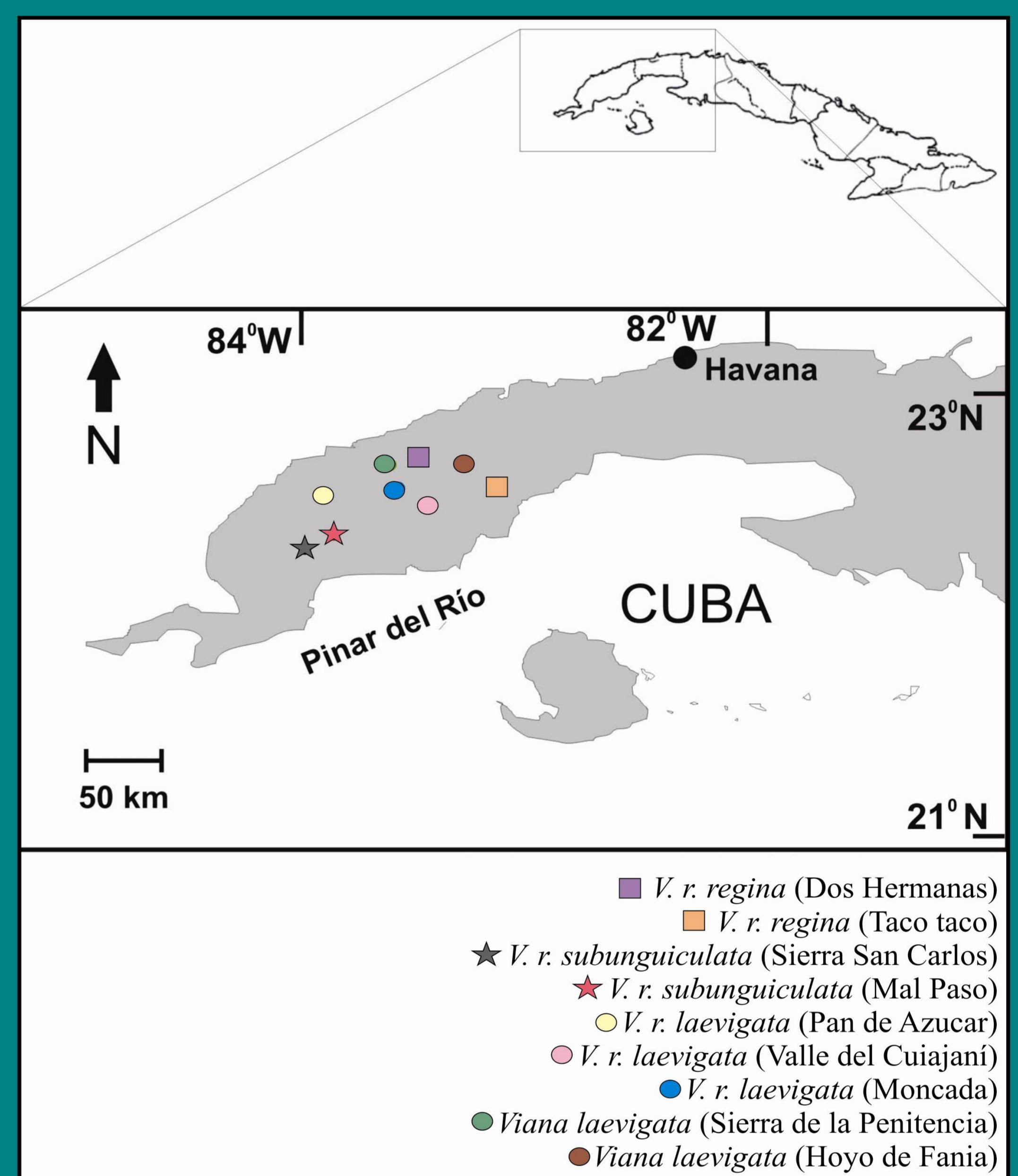
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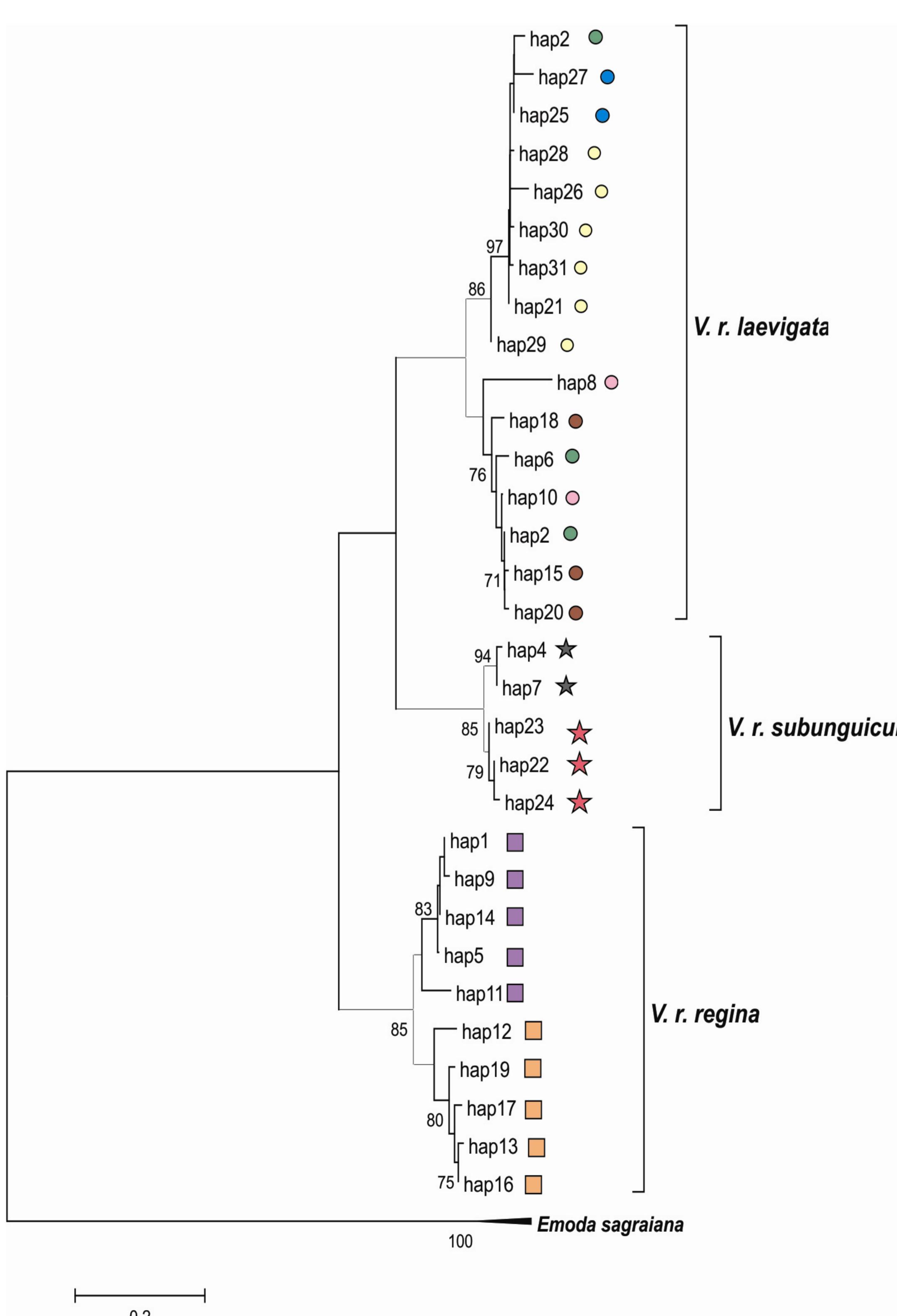
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Map of Pinar del Río in Cuba with indication of the sampling localities. Colours refer to the different populations.



A: *V. r. laevigata*  
B: *V. r. subunguiculata*  
C: *V. r. regina*



## Preliminary Results & Conclusions:

The concatenated mtDNA alignment comprised 1476 bp, of which 125 were polymorphic (PI = 109), yielding 31 haplotypes. ITS-2 comprised 639 bp, of which 6 were polymorphic (PI = 4), yielding 8 haplotypes. (All data without outgroup)

### mtDNA:

*V. r. subunguiculata* is well-supported; *V. r. regina* is only supported by NJ; *V. r. laevigata* is neither supported, nor rejected (« paraphyletic » with BI).

Within *V. r. subunguiculata* and *V. r. regina*, there seems to exist more or less well-supported geographic substructuring, even if the position of some haplotypes is unsupported (e.g. hap11, hap12).

### ITS-2:

Provides no additional resolution and suggests but haplotypes are specific per subspecies.

### Overall:

The conchological differentiation in *Viana* reflects phylogenetic, rather than ecophenotypic background.

Yet, the subspecific differentiation may need to be reconsidered in relation to the observed more complex geographic substructuring.

