

— In Superoxide dismutase (SOD) (= Tetrazolium oxidase) and other enzymes (not illustrated) clear species differences were not yet observed. Further investigations will be done.

These results strongly support a separate specific rank of *species A*, and also prove conspecificity of gynomorphic and intermorphic specimens of this taxon.

Analysis of queen polymorphism in *Leptocephalus* sp. A.

Figures 2 and 3 illustrate the thoracic structures of ergatomorphs, intermorphs and gynomorphs of *L. sp. A*. The ergatomorph corresponds to the usual "worker" of other *Leptocephalus* (s. str.) species. The intermorphs exhibit thoracic structures gradually changing from class 1 to 3 into the fully developed pterothorax of the gynomorph (class 4).

Some measurements were done to demonstrate the morphologically intermediate appearance of the intermorphic queens. *Species B* gynomorphs were included to show their size differences in comparison with *species A* (*table I*).

Intermorphic queens in general have a thorax length (TL) between that of ergatomorphs and gynomorphs, with mean values (0.93 mm) closer to those of ergatomorphs (0.88 mm) than to gynomorphs (1.01 mm). Their

Table I. — Thorax length and width of ergatomorphs, intermorphs and gynomorphs of *Leptocephalus* species *A*, and gynomorphs of *L. species B*, in mm. Differences of TL/TW indices in class 1-4 specimens are statistically significant (U-test).

Tabelle I. — Thoraxlänge und -breite von Ergatomorphen, Intermorphen und Gynomorphen von *Leptocephalus* species *A*, sowie Gynomorphen von *L. species B*, in mm. Die Unterschiede der TL/TW-Indices von Exemplaren der Klassen 1-4 sind statistisch signifikant (U-Test).

	Thorax length min-mean-max	Thorax width min-mean-max	Thorax length Thorax width	n specimens checked
<i>L. species A</i>				
Ergatomorphs (0)	0.83 - 0.89 - 0.96	0.27 - 0.30 - 0.36	ca. 3.00	30
Int. class 1	0.93	0.31	2.98	n.s.
Int. class 2	0.84 - 0.93 - 1.05	0.27 - 0.33 - 0.39	2.87	< 0.01
Int. class 3	0.93	0.35	2.58	57
			< 0.01	15
Gynomorphs (4)	0.87 - 1.01 - 1.19	0.38 - 0.46 - 0.53	2.19	42
<i>L. species B</i>			n.s.	
Gynomorphs (4)	0.94 - 1.12 - 1.24	0.45 - 0.53 - 0.62	2.09	61