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On a collection of dragonflies (Odonata) of the nature reservation De Lindevallei

by

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The material was collected in the Driessen-polder south of the town of Wolvega (south Friesland) in the period between June 15—21.1969 during an excursion of members of the Dutch Hydrobiological Society. The present paper contributes to the fragmentary knowledge of the dragonfly fauna of the province of Friesland.

Larvae and imagos of the dragonflies were collected along the water channel leading from the river Linde to the Driessen-polder and in ditches and pools inside the polder. The habitat has been formed as a result of the digging of peat in the past. The water is stagnant, but occasionally shows slow movement in the water channel. The bottom of the water bodies is covered by a layer of organic sediments. The oxygen content in the water was 2.2—5.5 mg/10₂ and 0.0—0.8 mg 10₂ (surface and bottom respectively, and pH of the water was 6.7—7.1 (BOONMAN 1969). The edges of the water channel were overgrown with *Spartanium erectum* L., *Equisetum fluvatile* L., and *Typha angustifolia* L., and the water surface with leaves of *Nuphar luteum* Sm., *Nymphaea* sp., and *Stratiotes aloides* L. The edges of the ditches and pools were overgrown with *Typha angustifolia* L., *Carex* sp. div., *Schoenoplectus lacustris* Palla, *Cicuta virosa* L., and *Iris*

pseudacorus L.; the water surface was mostly covered with a dense and homogeneous growth of *Stratiotes aloides* L.

The following 11 dragonfly species were found to be common at all the localities visited:

Lestes sponsa (Hans.) — Larvae very abundant, especially on *Stratiotes aloides*; imagos not observed.

Lestes viridis (v. d. Lind.) — (1 ♀) A less common species than the previous one; larvae on *Stratiotes*, immature imagos on emergent vegetation.

Coenagrion pulchellum (v. d. Lind.) — (18 ♂, 12 ♀) Imagos very abundant, copulating and ovipositing on *Stratiotes*. No larvae were found.

Erythromma najas (Hans.) — (3 ♂, 2 ♀) Imagos rather abundant, flying or sitting on the leaves of *Nuphar* and *Nymphaea*. Larvae occasionally found on *Stratiotes* and among the inshore vegetation.

Enallagma cyathigerum (Charp.) — Larvae only, occasionally found on *Stratiotes*.

Ischnura elegans (v. d. Lind.) — (2 ♂, 2 ♀) Imagos rather abundant, flying and sitting on inshore vegetation at all localities; no larvae were found.

Brachytron pratense (Müll.) — (3 ♂, 1 ♀) Imagos flew among the emergent parts of inshore vegetation (*Typha*, *Schoenoplectus*); not very abundant.

Aeshna grandis (L.) — Larvae only found on *Stratiotes* and some other aquatic plants; no imagos were observed.

Anaciaeschna isosceles (Müll.) — (3 ♂, 1 ♀) Rather common at all localities; imagos flew along the shores and over the "open" water of pools.

Libellula depressa L. — A single male was observed over a pool with *Stratiotes*.

Orthetrum cancellatum (L.) Two males were observed at the same spot as the previous species.

All species listed are common or very common in stagnant or slow flowing waters in the Netherlands and they do not indicate any special environmental conditions. Most of them have been previously recorded from the Dutch Wadden islands and Friesland (KIAUTA, 1968), whereas *Anaciaeschna isosceles* (Müll.) and *Orthetrum cancellatum* (L.) are new to the dragonfly fauna of the latter province.

References

- BOONMAN, A. P. H. M., (1969). Enige fysische en chemische bepalingen in de petgaten van De Lindevallei. Intern rapport van de Afdeling Sportvisserij en Beroepsbinnenvisserij. 7 pp., 4 figs., 5 tabs., Utrecht (in Dutch).
- KIAUTA, B., (1968). Additions to the list of Odonata of the Dutch Wadden islands, with an account of water quality, data of larval habitats, and a review of the dragonfly fauna of the Dutch and German Northsea islands. *Dodonea* 36: 88—114.

The First European Symposium on Odonatology

At the Second Odonatological Meeting in Utrecht, the Netherlands, on November 21, 1970, the initiative was born to organize a larger European Symposium; the Belgian odonatologists offered to be hosts to the gathering.

The Symposium has been held on October 22—23, 1971 in the Institute of Zoology of the State University of Ghent, Belgium. Nearly 60 members represented 11 countries (Belgium, Czechoslovakia, Denmark, France, German Federal Republic, India, Italy, the Netherlands, Poland, United Kingdom and U.S.S.R.), though the colleagues from Czechoslovakia, India, Poland and U.S.S.R. were unable to attend personally.

In the Opening Session, Dr. H. J. DUMONT (Ghent, Belgium) narrated briefly the history of odonatological research in Belgium and outlined the present odonatological work in his country. Dr. B. KIAUTA (Utrecht, Netherlands) pointed out the tendency of splitting up odonatology in specialized disciplines and stressed the growing desire to keep our science as an organic unity. With a minute of silence the Members of this first official international symposium commemorated the colleagues and pioneers of odonatology that have passed away.

In three Lecture Sessions, 12 lectures and demonstrations were given. Most lectures were accompanied by projection of slides or technical films, whereas two popular films "Im Reich der Drachenfliegen" and "With the film camera at a Dutch dragonfly pond" were demonstrated by Dr. G. JURZITZA (Karlsruhe, German Federal Republic) and Mr. J. L. MEULENBROEK (Leidschendam, Netherlands) respectively.

In the framework of the Symposium a Colloquium on the Status of the European Odonate Fauna has been held under the chairmanship of Dr. LIEFTINCK. The discussion was based on the draft of a catalogue prepared for this occasion by Mr. H. LOHMANN (Freiburg, German Federal Republic).

The abstracts of all papers have appeared in a mimeographed booklet. Copies of the latter and those of the draft of the catalogue of the European odonate fauna can be obtained, free of charge, from the author of this report.

One of the topics discussed in the Business Session was the problem of the protection of dragonfly biotopes in Western Europe.

The three most important results of the Symposium are:

- (1) The foundation of an international odonatological society, SOCIETAS INTERNATIONALIS ODONATOLOGICA (S.I.O.). For the time being the following countries are represented in the Executive Committee: Belgium, France, German Federal Republic, Netherlands, United Kingdom and U.S.S.R. The Secretary is Dr. H. J. DUMONT (Institute of Zoology, State University of Ghent, Ledeganckstraat 35, B-9000 Gent, Belgium).
- (2) The foundation of an international quarterly journal, ODONATOLOGICA. The first issue is scheduled to appear on March 1, 1972. All correspondence concerning the journal (editorial matters, abstracting service, subscriptions etc.) should be directed to the Editors of Odonatologica (Institute of Genetics, University of Utrecht, Opaalweg 20, Utrecht, the Netherlands).
- (3) International odonatological symposia will be held regularly every two years, each time in a different country. The next one is scheduled for September, 1973, and will be held in Karlsruhe, German Federal Republic. The President of the Organizing Committee is Dr. G. JURZITZA (Zehntwiesenstrasse 40, D-7505 Ettlingen, GFR).

B. KIAUTA