OBITUARY

IMATO SONEHARA

A brief biography of I. Sonehara (28 January 1921-12 May 2000), a science teacher and the author of "The life history of Epitheca bimaculata sibirica on Mt. Yatsugatake" is followed by his odonatological bibliography (1962-1996; 66 titles).

IMATO SONEHARA, the author of "The life history of Epitheca bimaculata sibirica on Mt Yatsugatake" and a co-editor of "Dragonflies of Nagano prefecture", passed away at the age of 79, on 12 May 2000, in consequence of brain and leg injuries received in a traffic accident in July 1999, while he was riding a motorbike, heading for a place of dragonfly faunal survey at a village (Misato-mura) adjacent to his home town.

He was a member of the Societas Internationalis Odonatologica, the Japanese Society for Odonatology, the Entomological Society of Shinshu, the Hokkaido Odonatological Society, and of the Worldwide Dragonfly Association. Sonehara was an eager, sincere, generous, gentle and cheerful dragonfly lover, devoting the latter 40 years of his life to odonatology, especially to the research of life history.

He was born on 28 January 1921 at Shiga-mura, Nagano prefecture. He graduated from Nagano Prefectural Young Men's School for Teacher Training in 1942, and from the Temporary Training School of Science Teachers, attached to the Hokkaido University, in 1948. Since then, he worked as a science teacher in several junior and senior high schools until he retired in 1981.



Imala Sonehara

Sonehara began his odonatological research in 1961 with a survey of the dragonfly fauna in Saku city and the adjacent villages. He became a Research Student at Nagano Prefecture School of Science Education, Faculty of Textile Science and Technology, Shinshu University and studied dragonfly biology under supervision of Professor Nagao Koyama, for one year.

Since 1962 when he found some habitats where Aeshna mixta, a rare species in Japan, occurred, Sonehara devoted much of his time to the study of odonate life history, under supervision of Dr Syoziro Asahina. In 1966 he was dispatched by the Board of Education, Nagano prefecture, to the Department of Medical Entomology, National Institute of Health, Tokyo as a visiting researcher and was engaged in a project titled 'Comparative ecological research in Epitheca marginata and E. bimaculata sibirica' under the supervision of Dr Asahina, for one year.

Sonehara also studied life histories of Sympetrum danae, Somatochlora arctica, Mortonagrion selenion and Coenagrion terue.

Dr S. Asahina (1988, *Gekkan Mushi* 211: 11-20) named *Aeshna mixta soneharai* in token of Sonehara's contribution to the biology of this Japanese subspecies.

Dr Philip Corbet cited thirteen published works in his book titled "*Dragon-flies: behavior and ecology of Odonata*", published by Cornell University Press in 1999.

ODONATOLOGICAL BIBLIOGRAPHY OF IMATO SONEHARA 1962-1996

- 1962 The odonate fauna in Saku-city and Minamisaku-gun (1). Kagaku Kyouiku Kenkyushitsu-sei Kenkyu Houkoku, Faculty of Textile Science and Technology, Shinshu University 11: 15-24. [Jap.]
- 1963a The odonate fauna in Saku-city and Minamisaku-gun (2). Kagaku Kyouiku Kenkyushitsu-sei Kenkyu Houkoku, Faculty of Textile Science and Technology, Shinshu University 12: 1-4. [Jap.]
- 1963b Fauna of dragonfly in Saku-city and Minamisaku-gun, Nagano-pref. New Entomologist 12: 23-33. [Jap., with Engl. s.]
- 1963c Supplemental notes on the odonate fauna in Saku-city and Minamisaku-gun, Nagano-pref. New Entomologist 12: 33-34. – [Jap., with Engl. translation of the title]
- 1963d Supplemental notes on the odonate fauna in Saku-city and Minamisaku-gun, Nagano-pref. (2). New Entomologist 12: 42. [Jap., with Engl. translation of the title]
- 1963e Correction of "Supplemental notes on the Odonata fauna in Saku-city and Minamisaku-gun, Nagano-pref. (2)". New Entomologist 13: 49. [Jap.]
- 1964a The odonate fauna in Saku-city and Minamisaku-gun (3). Kagaku Kyouiku Kenkyushitsu-sei Kenkyu Houkoku, Faculty of Textile Science and Technology, Shinshu University 13: 1-4. [Jap.]
- 1964b Fauna of dragonfly in Saku-city and Minamisaku-gun, Nagano-pref. (2). New Entomologist 13: 47-49. [Jap., with Engl. s.]
- 1964c Copulation of Aeschna mixta. Tombo 7: 1. [Jap., with Engl. translation of the title]
- 1964d Discovery of the larva and ecological observations on the adult behaviour of Aeschna mixta Latreille in Komoro-city, Nagano prefecture. *Tombo* 7: 2-12. [Jap., with Engl. s.]
- 1964e Studies on the dragonflies occurring on Mt Yatsugatake. Nagano-ken Gakkou Kagaku Kyouiku

- Shourei Kikin dai 4 kai Shourei Kenkyu Repoto, pp. 336-339. [Jap.]
- 1965a Fauna of dragonfly in Saku-city and Minamisaku-gun, Nagano pref. (3). New Entomologist 14: 29-35. [Jap., with Engl. s.]
- 1965b Trigomphus ogumai from Nagano prefecture. *Tombo* 7: 24. [Jap., with Engl. translation of the title]
- 1965c Observation on Sympetrum danae on Mt Yatsugatake, Central Japan. *Tombo* 8: 2-9. [Jap., with Engl. s.]
- 1965d Studies on the dragonflies occurring on Mt Yatsugatake (2). Nagano-ken Gakkou Kagaku Kyouiku Shourei Kikin dai 5 kai Shourei Kenkyu Repoto, pp. 303-305. [Jap.]
- 1965e (ASAHINA, S. & -) Description of the larval stage of Aeschna mixta taken in Komoro City. Tombo 7: 22-24. - [Jap., with Engl. s.]
- 1965f A summarized report on the situation of some noteworthy dragonfly species occurring on and around Mt Yatsugatake, with brief impressions. Shinanoji 12: 3-5. [Jap.]
- 1966a Notes on the dragonflies of Lake Shirakaba in Nagano prefecture. *Tombo* 9: 10-11. [Jap., with Engl. s.]
- 1966b Emergence of Sympetrum frequens at a high altitude on Mt Yatsugatake. *Tombo* 9: 11. [Jap., with Engl. s.]
- 1966c Dragonfly fauna of pond group in the table land, Mimakigahara, Nagano prefecture. New Entomologist 15: 25-29. [Jap., with Engl. s.]
- 1966d Ecology of the dragonflies around Mt Yatsugatake: A study on the life history of the genus Epitheca. Nagano-ken Gakkou Kagaku Kyouiku Shourei Kikin dai 6 kai Shourei Kenkyu Repoto, pp. 261-262. [Jap.]
- 1967a A female Epitheca bimaculata sibirica ready to flight for oviposition. *Tombo* 10: 1. [Jap., with English translation of the title]
- 1967b Present situation of the dragonflies in Saku, Nagano prefecture, Japan. *Odonata* 21: 15. [Jap.]
- 1967c On the life history of the dragonflies of the genus Epitheca with special reference to E. bimaculata sibirica Selys in Mt Yatsugatake. *Tombo* 10: 2-24. [Jap., with Engl. s.]
- 1968a The larval period of Epitheca bimaculata sibirica in Japan. *Tombo* 11: 33-35. [Jap., with Engl. s.]
- 1968b Notes on the larval growth of Aeschna mixta in Japan. Tombo 11: 14-15. [Jap., with Engl. s.]
- 1969a The way of observation on the dragonfly. Science through experiments / Kagaku no Jikken 20: 253-259. [Jap., with Engl. translation of the title]
- 1969b Recent situation of my dragonfly research. Shinanoji 20: 38. [Jap.]
- 1970a Fauna of dragonfly in Saku-city and Minamisaku-gun, Nagano-pref. (4). New Entomologist 19: 27-34. [Jap., with Engl. s.]
- 1970b Anaciaeschna martini in Komoro, Nagano prefecture. Tombo 13: 28-29. [Jap., with Engl. s.]
- 1970c Sympetrum s. speciosum on Mt Yatsugatake. Tombo 13: 29-30. [Jap., with Engl. s.]
- 1970d Studies on the ecology and life history of dragonflies (I). Nagano-ken Gakkou Kagaku Kyouiku Shourei Kikin dai 10 kai Shourei Kenkyu Repoto, pp. 247-248. [Jap.]
- 1971a Dragonfly fauna in the western mountainous region of northern Nagano (1). New Entomologist 20: 33-40. [Jap., with Engl. s.]
- 1971b Early instar larvae of Aeschna mixta. Tombo 14: 13. [Jap., with Engl. s.]
- 1971c Studies on the ecology and life history of dragonflies (2). Nagano-ken Gakkou Kagaku Kyouiku Shourei Kikin dai 11 kai Shourei Kenkyu Repoto, pp. 57-58. [Jap.]
- 1972a The larval period of Epitheca marginata (Selys) (Corduliidae). *Tombo* 15: 23-25. [Jap., with Engl. s.]
- 1972b Studies on the ecology and life history of dragonflies (3). Nagano-ken Gakkou Kagaku Kyouiku Shourei Kikin dai 12 kai Shourei Kenkyu Repoto, pp. 63-64. [Jap.]
- 1972c Dragonflies. In: Shinano Seibutsukai, [Ed.], Shinano no Shizen Series (6) Mt Yatsugatake, pp.

- 44-49. Shinano Seibutsukai, Matsumoto. [Jap.]
- 1977 (KOYAMA, N., E. EDA, T. ANDO, S. FUJISAWA, F. ITO, M. KURATA, D. KURIBA-YASHI, W. MIYATA, & T. TAKIZAWA) *Dragonflies of Nagano Prefecture.* Shinano Kyouikukai, Nagano. 195pp. [Jap., with Engl. translation of the title]
- 1978 Please understand and cooperate with the prohibition of collecting Aeschna mixta at Uraoike, Komoro city. *Gracile* 23: 4-6. [Jap.]
- 1979a An aberrant male of Sympetrum infuscatum. Tombo 17: 26. [Jap., with Engl. s.]
- 1979b The number of eggs in the egg-string of Epitheca bimaculata sibirica and their hatching ratio. Tombo 17: 27. – [Jap., with Engl. s.]
- 1980a Report on the prohibition of collecting dragonflies at Ura-oike, Komoro city. Nature and Insects / Konchu to Shizen 15(10): 27. [Jap.]
- 1980b A case of triple connection comprising of only males of Epitheca bimaculata sibirica. *Nature and Insects I Konchu to Shizen* 15(14): 25. [Jap.]
- 1982 The life history of Epitheca bimaculata sibirica on Mt Yatsugatake. Shinano Kyouikukai, Nagano. 203 pp. [Jap.]
- 1983a Oviposition and migration of Sympetrum speciosum on Mt Yatsugatake. Nature and Insects / Konchu to Shizen 15(14): 25. [Jap.]
- 1983b Further contribution to the behaviour of Epitheca species. Tombo 26: 40. [Jap., with Engl. s.]
- 1983c Aeschna mixta occurring in Komoro City was designated as a natural monument of the city.

 Nature and Insects / Konchu to Shizen 18(14): 37. [Jap.]
- 1984 Insects and I. Nature and Insects / Konchu to Shizen 19(6): 25. [Jap.]
- 1985 Observation on the life-history of Somatochlora arctica in Nagano prefecture. *Tombo* 28: 23-30. [Jap., with Engl. s.]
- 1987 Observations on the dragonfly species artificially introduced or naturally established in a manmade pond. *Tombo* 30: 44-46. [Jap., with Engl. s.]
- 1988a Aeschna mixta soneharai visiting my garden pond. Tombo 31: 48. [Jap., with Engl. s.]
- 1988b Odonata. In: Saku Shishi Hensan Iinkai, [Ed.], Saku Shishi Shizen-hen, pp. 930-947. Saku-shi, Nagano prefecture. — [Jap.]
- 1990 Probable establishment of Aeschna mixta soneharai at a small garden pond. *Tombo* 33: 50. [Jap., with Engl. s.]
- 1991a 1991 visit of Aeschna mixta soneharai to my garden pond. Tombo 34: 52. [Jap., with Engl. s.]
- 1991b Establishment of dragonfly species at a man-made pond, second report (Observation at Tazawa, Toyoshina, Nagano pref.). Tombo 34: 53-54. [Jap., with Engl. s.]
- 1992a Confirmation of the presence of Aeschna mixta in Azumi Plain. *Tombo* 35: 53. [Jap., with Engl. translation of the title]
- 1992b Sympetrum baccha matutinum breeding in highland waters. *Tombo* 35: 53. [Jap., with Engl. translation of the title]
- 1992c Rearing of a highland population of Sympetrum frequens. *Tombo* 35: 54-55. [Jap., with Engl. s.]
- 1993 Supplementary notes on the highland colony of Sympetrum frequens on Mt Yatsugatake. New Entomologist 42: 44-46. — [Jap., with Engl. s.]
- 1994a Life-history of Mortonagrion selenion (Ris) observed at Tazawa, Nagano prefecture. *Tombo* 37: 37-43. [Jap., with Engl. s.]
- 1994b Dragonflies. In: Nagano-ken Minami-saku Gunshi Hensan linkai, [Ed.], Minami-saku Gunshi Shizen-hen, (2), pp. 621-641. Minamisaku-gun, Nagano prefecture. [Jap.]
- 1995 Dragonflies. In: Toyoshina Choushi Hensan Iinkai, [Ed.], Toyoshina Choushi Shizen-hen, pp. 145-149. Toyoshina-chou, Nagano prefecture. [Jap.]
- 1996a Life-history of Agrion terue Asahina (1). Tombo 39: 38-42. [Jap., with Engl. s.]
- 1996b Further observations on the larval growth period of Mortonagrion selenion. *Tombo* 39: 42-43. [Jap., with Engl. s.]

1996c (- & H. UBUKATA) Life-history of Agrion terue Asahina (2). *Tombo* 40: 6-11. - [Jap., with Engl. s.]

Portrait on p. 415 dated early 1990s.

Honorary Professor of Matsumoto Dental University

S. EDA

3-4-25, Sawamura, Matsumoto, Nagano Prefecture, 390-0877, Japan

Department of Science Education

H. UBUKATA

Kushiro Campus Hokkaido University of Education Kushiro, Hokkaido, 085-0826, Japan