

NOTEWORTHY ODONATA COLLECTED BY PARTICIPANTS IN THE SEVENTH INTERNATIONAL SYMPOSIUM OF ODONATOLOGY

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Abstract — Notes on 14 spp. are presented, incl. the first published records of *Enallagma anna* for Canada. The first Alberta records of *Aeshna constricta*, *A. subarctica* and *A. tuberculifera* also are included.

Introduction

The Seventh International Symposium of

Odonatology was held at Calgary, Alberta, Canada on 14-21 August 1983. During the field trips and Post-Symposium Tour considerable collecting was undertaken at various localities around Calgary, in the Rocky Mountains in Banff National Park and in the Columbia River Valley of southeastern British Columbia. In addition, several participants collected in

adjacent Canadian territory while en route to and from the Symposium. A few of the more notable captures made during these trips are assembled here.

List of species

Lestidae. — *Lestes unguiculatus* Hagen: Although WHITEHOUSE (1917) notes this species is common around Red Deer, Alberta, his record remains the only one published for the province. M. Siva-Jothy collected 1 ♂ at Fish Creek, Calgary on 17-VIII-1983. To emphasize that this is a widespread species in southern Alberta, it should be recorded that S. Cannings and I collected the following specimens in the area in 1982 while planning Symposium field trips: Fish Creek, Calgary, 17-VIII-1982, 1 ♂; Glenmore Reservoir, Calgary, 17-VIII-1982, 1 ♂ 1 ♀; Nose Hill Park, Calgary, 19-VIII-1982, 2 ♂; Kananaskis Valley, 16-VIII-1982, 3 ♂ 3 ♀; Medicine Hat, 14-VIII-1982, 2 ♂; Onefour, 13-VIII-1982, 5 ♂ 3 ♀.

Coenagrionidae. — *Coenagrion interrogatum* (Hagen): West of Nordegg, Alberta, S. Dunkle collected 2 ♂ at a lake west of Fish Lake Road on Hwy. No. 11 on 8-VIII-1983 and 20 ♂ 3 ♀ (in tandem and copula) at Goldeye Lake on 9-VIII-1983. These are only the third and fourth records for the species in Alberta (cf. ACORN, 1983) although the species is widespread in the boreal forest. In my experience dates in August are late. — *Enallagma anna* Williamson: There are no previously published records of this species in Canada. It was first collected at Ross Creek, Medicine Hat, Alberta, 26-VIII-1980 by D. Soluk (R. Baker, G. Hutchinson, pers. comm.) and I collected it at Fish Creek, Calgary on 17-VIII-1982. During the Symposium, on 17-VIII-1983, 4 ♂ were captured at Fish Creek by S. Cannings, M. May and E. Schmidt. On their journey to Calgary M. Wasscher and L. Beukeboom caught a pair at a river on Hwy. No. 630 southwest of Swift Current, Saskatchewan. This is the only Saskatchewan record.

Aeshnidae. — *Aeshna constricta* Say: S. Dunkle collected both the first and second Alberta records of this species — the first, 1 ♂ at Lower Kananaskis Lake on 17-VIII-1983, the second, a pair ovipositing at Sheep Creek, Hwy. No. 2, north of Nanton on 21-VIII-1983. M. Wasscher and L. Beukeboom captured 1 ♀ at

Austin, Manitoba on 11-VIII-1983, only the fifth Manitoba locality. — *Aeshna palmata* Hagen: One ♂ was taken by K. Tennessen near Maple Creek Campground, Hwy. No. 1, Saskatchewan on 14-VIII-1983. This locality is immediately north of the Cypress Hills, the only Saskatchewan locality previously recorded for this Cordilleran species. — *Aeshna subarctica* Walker: Prior to 1983 there were no Alberta records. S. Dunkle collected the species at several localities on his way to the Symposium: bog 5 mi. E. of Obed Lake, Hwy. No. 16 (4000 ft.), 5-VIII-1983, 1 ♀, 1 pair in tandem; 3 mi. E. of Obed Lake, 5-VIII-1983, 17 ♂; bog 1.2 mi. W. Nordegg on Hwy. No. 11 (500 ft.), 7-VIII-1983, 1 ♂; lake W. of Fish Lake Road on Hwy. No. 11, 8-VIII-1983, 1 ♂ 1 ♀. At the Precambrian Rock Outcrop near Lake Louise on 2-VIII-1983, 1 ♂ (M. Masson) and 1 ♀ (M. May) were recorded (cf. CANNINGS & CANNINGS, 1983). M. Westfall collected 1 ♂ at Athalmer Beach Park, B.C. on 20-VIII-1983 where S. Cannings collected one exactly one year earlier during reconnaissance for the Post-Symposium Tour. This locality contains an unusual mix of boreal and southern forms (CANNINGS, 1983) and is the only site in the valleys of southern British Columbia where *A. subarctica* has been recorded. At 900 m elevation on Hwy. No. 1 at Rogers, B.C. on 22-VIII-1983 S. Cannings, B. Kiauta and I recorded 16 ♂ 2 ♀ of this widespread but seldom collected species. — *Aeshna tuberculifera* Walker: WALKER (1958) noted that "Since this species has not been found between Wisconsin and Vancouver Island, B.C. in more than 40 years, it appears probable that the eastern and western populations are distinct, although the individuals from the two regions appear to be identical". However, more recent records from Washington (PAULSON & GARRISON, 1977) and Montana (S. Dunkle, pers. comm.) in the U.S.A. and from northern Alberta (bog 5 mi. E. Obed Lake, Hwy. No. 16, 5-VIII-1983, 1 ♂, S. Dunkle) indicate it is likely the species has a transcontinental boreal range. The latter record is the first for Alberta. — *Anax junius* Drury: U. Norling collected a larva in the beach lagoon at Athalmer, B.C. on 20-VIII-1983. This is the first record of the species from southeastern B.C. (east of 119° W).

Cordulegastridae. — *Cordulegaster dorsalis* Hagen: Collecting in British Columbia after the symposium, B. and M. Kiauta captured 1 ♂ at Albert Canyon, Hwy. No. 1 on 30-VIII-1983. This is only the second record east of the Coast Mountains in B.C. for this mainly coastal species.

Corduliidae: *Somatochlora cingulata* (Selys): The ovipositing ♀ seen at close range by S. Cannings at the Precambrian Rock Outcrop, Lake Louise, Alberta on 21-VIII-1983 (CANNINGS & CANNINGS, 1983) is only the third Alberta record. D. Paulson (pers. comm.) collected the species at the same location on 3-VIII-1968; the original record is from Nordegg (WHITEHOUSE, 1918). — *Somatochlora minor* Calvert: Near Nordegg S. Dunkle recorded 1 ♀ at the outlet of a lake west of Fish Lake Road on Hwy. No. 11 on 8-VIII-1983 and 11 ♂ patrolling the outlet of Goldeye Lake on 9-VIII-1983. These are the fourth and fifth localities for the species in Alberta. — *Somatochlora walshii* (Scudder): S. Dunkle collected 1 ♂ at a bog 5 mi. E. of Obed Lake, Alberta on Hwy. No. 16 on 5-VIII-1983 and another at Goldeye Lake W. of Nordegg on 9-VIII-1983. These are the second and third Alberta records. — *Somatochlora whitehousei* Walker: S. Dunkle recorded 1 ♀ at a bog 5 mi. E. of Obed Lake on 5-VIII-1983 and several were captured at the Precambrian Rock Outcrop, Lake Louise

(CANNINGS & CANNINGS, 1983) on 21-VIII-1983: S. Cannings, 1 ♂ 2 ♀; U. Norling, 1 ♂; M. May, 1 ♂.

Libellulidae: *Sympetrum madidum* Hagen: Collected previously at only two localities in southern Alberta, this species was recorded by me at Fish Creek, Calgary on 17-VIII-1982 during reconnaissance for the Symposium field trips. This capture extends the range 160 km northwards in Alberta, but the species is local and is certainly more widely distributed in the province than is now known. M. Westfall collected 1 ♂ at Athalmer Beach, B.C. on 20-VIII-1983, only the third record for south-eastern British Columbia.

References — ACORN, J.H., 1983, *Notul. odonatol.* 2: 17-19; — CANNINGS, R.A., 1983, *Field trip handbook of the VIIth International Symposium of Odonatology, Calgary*; — CANNINGS, R.A. & S.G. CANNINGS, *Notul. odonatol.* 2: 23-24; — PAULSON, D.R. & R.W. GARRISON, 1977, *Pan-Pacific Entomol.* 53: 147-160, — WALKER, E.M., 1958, *The Odonata of Canada and Alaska*, Vol. 2, Univ. Toronto Press; — WHITEHOUSE, F.C., 1917, *Can. Ent.* 49: 96-103; — 1918, *Can. Ent.* 50: 1-7, 95-100.

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