Two alien Heteroptera (Hemiptera) new to Canada

G.G.E. Scudder1

ABSTRACT

This paper reports two alien species of Heteroptera (Hemiptera), Rhopalus tigrinus (Schilling) (Rhopalidae) and Plinthisus brevipennis (Latreille) (Rhyparochromidae) new to Canada. The former is now known from British Columbia, the latter from British Columbia and Ontario.

Key Words: Canada, two new alien Heteroptera species

INTRODUCTION

The distribution, spread, and adaptations of 81 alien heteropterous species recorded in Canada was summarized by Scudder and Foottit (2006). Recent research has revealed two additional alien species in the Canadian fauna. These are reported below, with Museum abbreviations as follows:

CNC: Canadian National Collection of
Insects, Agriculture and Agri-Food Canada, Ottawa, ON.

RBCM: Royal British Columbia Museum, Victoria, BC.

USNM: United States National Museum of Natural History, Smithsonian Institution, Washington, DC.

ALIEN HETEROPTERA NEW TO CANADA

FAMILY RHOPALIDAE

Rhopalus tigrinus (Schilling)

Rhopalus tigrinus was first reported from North America by Hoebeke and Wheeler (1982) with records from New Jersey, New York and Pennsylvania. Known breeding host plants are members of the Brassicaceae (= Cruciferae). Subsequently, Wheeler and Hoebeke (1999) recorded R. tigrinus from Arizona, California, Colorado, Nebraska, Oregon and Wyoming. Hoebeke and Wheeler (1982) provide a key to separate this alien Eurasian species from the other rhopalids known to occur in eastern North America, and give a dorsal view photograph.

The following characteristics will serve to identify this species: Dorsal coloration yellowish or greyish with black markings on head, anterior margin of pronotum, antero-lateral corners of scutellum, and spots on veins of hemelytra; abdominal dorsum black with yellow markings at apex; connexivum generally yellow, but sometimes with black spots posteriorly. Head short, more than 1.5 times as broad as long; rostrum short, not or barely extending to metasternum; pronotum without anterior collar; lateral margins of pronotum straight or slightly sinuate, without a distinct notch behind anterior margin; pronotal cicatrices not ending in a loop; pronotum anterior to cicatrices not smooth or polished, but always with numerous coarse punctures; metapleuron distinctly divided into episternum and epimeron; posterior margin of metasternum deeply concave, with dorso-lateral angle distinctly produced caudad; metathoracic scent gland opening conspicuous. Total length (♂ 5.9-6.6 mm, ♀ 6.1-7.1 mm).

This species is now known to occur

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quite commonly in the southern interior of British Columbia. The species was previously reported from the province as *Lo-rrhyssus hyalinatus* (Fabricius) by Blades and Maier (1996), based upon my misiden-
tification. Canadian material has been com-
pared with a colour photograph of a speci-
men from the USA kindly provided by Dr. T.J. Henry.

**Material examined.**

BC: 3♀, Barnhartvale, NW area, 50°
38'47"N 120°09'14"W, 23.vi.2003 (G.G.E.
Scudder) [CNC, UBC]; 1♂, Boston Bar,
23.vi.1996 (G.G.E. Scudder) [CNC]; 2♀
♂, Chopaka, 27.viii.1986 (G.G.E. Scud-
er) [CNC, UBC]; 1♂, Chopaka, SATH
habitat, BGxh1, SN, CH11, 26.v.1995, (J.
Jarrett) [UBC]; 1♀, id., CH 15, 19.vi.1995
(J. Jarrett) [UBC]; 1♀, Chopaka, BGxh1,
SN, pitfall trap CH1-1, 23.vi.28.vii.1997 (J.
Jarrett) [UBC]; 1♀, id., CH1-3, 23.vi-
28.vii.1997 (J. Jarrett) [UBC]; 1♂, id.,
CH5-1, 23.vi.-28.vii.1997 (J. Jarrett)
[CNC]; 1♂, id., CH1-3, 28.vii.-18.viii.1997
(J. Jarrett) [UBC]; 1♀, id., CH2-1, 28.vii.-
18.viii.1997 (J. Jarrett) [UBC]; 1♀, id.,
CH5-4, 28.vii.-18.viii.1997 (J. Jarrett)
[UBC]; 2♀, Chopaka, Mariposa Conserv.
Area, 3.vii.1996 (G.G.E. Scudder) [CNC];
1♀, Fairview, White L., BGxh1, SWm,
7.vi.1996 (G.G.E. Scudder) [CNC]; 1♀,
Fairview, White L., SATH habitat, BGxh1,
SWm, pan trap WL P-1, 4.vii.-11.vi.1995
(J. Jarrett) [UBC]; 1♀, id., WL P-2, 13.vi-
20.vi.1995 (J. Jarrett) [UBC]; 1♂, Fairview,
White L., SATH habitat, BGxh1, SWm,
sweeping 9, 11.vii.1995 (J. Jarrett) [UBC];
1♂, Hedley, 5 km W, 15.vi.1990 (G.G.E.
Scudder) [CNC]; 1♀, Hedley, 7 km E on
*Clematis*, 10.ix.1995 (G.G.E. Scudder)
[CNC]; 4♂ 12♀, Kalamalka Lake Prov.
Pk., 24.viii.1989 (G.G.E. Scudder) [CNC,
UBC, USNM]; 1♀, Keremeos, 10.ix.1995
(G.G.E. Scudder) [CNC]; 2♀, Kilpoola L.,
31.v.2006 (G.G.E. Scudder) [CNC]; 2♂,
Merritt, 35 km S, 14.viii.1988 (G.G.E.
Scudder) [CNC]; 1♀, Nicola, 1.ix.1993
(G.G.E. Scudder) [CNC]; 1♀, Okanagan
Falls, Mandalay Ranch, McLean Cr., 49°
20'52"N 119°31'29"W, collected on
*Chenopodium album*, 31.vii.2004 (G.G.E.
Scudder) [CNC]; 1♀, Okanagan Falls, Na-
ture Trust Land, 49°18'54"N 119°31'33"W,
20.v.2004 (G.G.E. Scudder) [CNC]; 3♂
3♀, Okanagan Falls, Vaseux Ranch, 49°
18'55"N 119°31'34"W, on *Sisymbrium al-
tissimum* L. (Tumble mustard), 24.v.2004
(G.G.E. Scudder) [CNC, UBC]; 1♂,
Okanagan Falls, Vaseux Ranch, 49°
Scudder) [CNC]; 1♂ 1♀, id., 20.viii.2004
(G.G.E. Scudder) [CNC]; 7♀ 9♂, Osoyoos,
29.viii.1988 (G.G.E. Scudder) [CNC, UBC,
USNM]; 2♂ 3♀, id., 23.vii.1989 (G.G.E.
Scudder) [CNC]; 2♂, Osoyoos, Anarchist
Mt., 26.vii.1989 (G.G.E. Scudder) [CNC];
1♀, Osoyoos, Desert Centre, BGxh1,
8PD/2AN:P, pitfall trap DS3-1, 22.vii-
20.vii.1999 (G.G.E. Scudder) [CNC]; 1♀,
Osoyoos, East Bench, 4.vi.1992 (G.G.E.
Scudder) [CNC]; 1♀, id., 15.ix.2000
(G.G.E. Scudder) [CNC]; 1♀, id.,
15.viii.2006 (G.G.E. Scudder) [CNC]; 1♀,
id., vane trap, 17.v.-12.vii.2007 (G.G.E.
Scudder) [CNC]; 1♀, Osoyoos, Ecol. Res.,
14.vi.1987 (S.G. Cannings) [UBC]; 1♀, id.,
8.v.1994 (G.G.E. Scudder) [CNC]; 1♀,
Osoyoos, Haynes E.R., BGxh1, AN recov-
ery after fire, pitfall trap B2, 8.vi-
9.vi.1994 (G.G.E. Scudder) [CNC]; 3♀,
[CNC]; 1♀, id., A1, 9.viii.-20.ix.1996
(G.G.E. Scudder) [CNC]; 1♀ 2♂, Osoyoos,
Haynes E.R., BGxh1, AN recovery after fire,
9.viii.1995 (G.G.E. Scudder) [CNC];
1♂ 1♀, id., 23.v.1996 (G.G.E. Scudder)
[CNC]; 1♀, Osoyoos, Haynes E.R., col-
lected on *Sporobolus cryptandrus* (Torr.)
Gray, 2.ix.1993 (G.G.E. Scudder) [CNC];
1♀, id., 5.ix.1993 (G.G.E. Scudder) [CNC];
1♂ 1♀, id., sweeping *Sisymbrium loeselli*
L., 8.v.1994 (G.G.E. Scudder) [CNC]; 3♂
3♀, id., sweeping *Bromus tectorum* L.,
8.v.1994 (G.G.E. Scudder) [CNC, UBC];
2♂ 2♀, id., sweeping *Stipa comata* T.&R.,
2.vi.1994 (G.G.E. Scudder) [CNC]; 1♀, id.,
sweeping *Sisymbrium loeselli* L., 2.vi.1994
(G.G.E. Scudder) [CNC]; 1♂, Osoyoos,
Haynes Lease Eco. Reserve, “Throne area”,
27.vii.1988 (C.S. Guppy) [RBCM]; 1♀,
(G.G.E. Scudder) [CNC]; 6♂ 7♀, Osoyoos,

**FAMILY RHYPAROCHROMIDAE**

**Plinthisus brevipennis** (Latreille)

This alien European seed bug was first reported from North America by Asquith and Lattin (1991), who recorded the species from Oregon and Washington, with the first collection from near Seattle in 1964. Asquith and Lattin (1991) provide a fine illustration of this species, and note that it is easily distinguished from the three native western species of *Plinthisus* by its size (total length ♀ 2.45-3.00 mm, ♂ 2.98-3.20 mm), and the width of the fore femur, which in *P. brevipennis* is equal to, or greater than, the width of the vertex.

Canadian material has been compared with specimens of *P. brevipennis* in my own collection, collected by me in Jersey, Channel Islands in 1957. *P. brevipennis* is here reported new to Canada, with specimens collected in British Columbia and Ontario.

**Material examined.**

BC: 1♀, Victoria, Mary Hill, Site 1, 48°20.6’N 123°33.0’W, low broom, grasses, pitfall trap 5, sample MH1PSA, 05-14.ix.2003 (A. Behennah, I. Behennah) [RBCM]; 1♀, id., 21-28.ix.2003 (A. Behennah, I. Behennah) [RBCM]; 1♂, S. Gulf Islands, Tumbo Island, CDF, 48°47.602’N 123°03.143’W, pitfall trap, 8.vii.2004 (J. Heron, S. Lavallee, R. Bennett) [RBCM]; 2♀, S. Gulf Islands, Tumbo Island, CDF, 48°47.620’N 123°03.143’W, pitfall trap, 8.vii.2004 (J. Heron, S. Lavallee, R. Bennett) [RBCM]; 1♀, S. Gulf Islands, Tumbo Island, CDF, 48°47.754’N 123°05.466’W, [RBCM].

ON: 2♀, Rondeau Pk., on sand beach, edge oak for., Int. trap 5, 14.vi.-2.vii.1985 (L. LeSage & D.M. Wood) [CNC].

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**REFERENCES**


