Psyllids of the Kuril Islands (Homoptera, Psylloidea)

E.S. Labina

The fauna of the Kuril Islands had been studied by Logino- 

ova (1962, 1976), Kuwayama (1967), Konova- 


nova described four new species from the archipelago, one 

species in 1962 (Craspediaepta topicalis) and three in 

1976 (Calophya rhododendri, Epheloscyta kalopanacis, 

E. sancta). She also noted in 1976 two more species for 

this region (Calophya nigra, C. nigrorsalis). Kuwaya-

ma (1967) added two species to the faunal list (Aphalar-


an endemic Kuril species (Psylla kunashirensis), recorded 

from the archipelago some other species (Konovalova, 

1978, 1981, 1983) and listed in the keys (Konovalova, 

1988) 15 species from the Kuril Islands. However, E. 

kalopanacis and E. sancta are not noted from the Kuril 

Islands in these keys, so the total number of species re-

corded from the Kurils up to now is 17. Also 17 species 

were noted by Konovalova (1988) as distributed “every-

where”, but only 5 of these species were collected in 

the archipelago; I do not consider these statements by Kono-

valova to be records from the Kuril Islands. Klimaszew- 

ski (1983) described aphalara kunashirensis, but this name 

proved to be a junior synonym of A. itadori (see Burek-

hardt & Lauterer, 1997).

This paper is based on material of Zoological Institute 

RAS, St.Petersburg, collected mainly by I.M. Kerzhner 

in 1973 and partly by other entomologists (N.A. Azarov-

a, E.R. Budris, E.P. Danilovtish, E.M. Danzig, V.M. Er-
molenko, K.B. Gorodkov, Z.A. Konova- 

lova, G.O. Krivo-

lutskaya, E.P. Nartshuk, O.A. Skarla- 

to, V.N. Tansai- 

shuk, 

N.A. Violovitsh) and material collected during the expe- 

ditions of The International Kuril Island Project (IKIP) by 

American participants (B.K. Urbain, D.J. Bennett, P. 

Oberg, V. Rohr, T.R. Anderson, N. Minakawa) in 1995-

2001 and by Russian participant Yu.M. Marusik in 1996-

1997. Part of the IKIP material (341 specimens) was sent 

for identification to S. Muddiman (U.K.) in 1997; my 

efforts to locate these specimens were unsuccessful. Spec-

imens collected by Marusik are kept at the Zoological 

Institute, St.Petersburg, and those collected by the Amer-

ican participants of the IKIP expeditions, at the Califor-

nia Academy of Sciences, San Francisco. I examined also 

briefly Konovalova’s psyllid collection in the Institute of 

Biology and Soil Sciences in Vladivostok.

The islands (see map) are listed approximately from 

the northern to the southern ones in the following se-

quence: Shumshu, Paramushir, Onekotan, Raikoke, Simu-

shir, Chiper, Iturup, Kunashir, Shikotan, Zelionyi and Tanfi-

lyeva.

For the IKIP material, the field numbers are given in 

brackets. Each field number consists of four parts united 

with hyphens: abbreviated name of the island, two last 

characters of the year of collecting, abbreviated name of 

collector, individual number of the sample. More details 

can be found at http://artedi.fish.washington.edu/Okhot-

ska/database/LocalitySearch.htm.

In references to previous records by Konovalova (1988), 

exact localities within the islands are listed for some spe-

cies based on the examined collection in Vladivostok. 

An asterisk before the species name means new to the 

fauna of the archipelago. An asterisk before the island 

name means new record for the island.

The distribution of species in the archipelago is sum-

marized in the Table. For distributions outside of the Kuril 

Islands see Gegechkori & Logino- 


Family CALOPHYIDAE

Subfamily CALOPHYINAE

Calophya nigra Kuwayama, 1908. Shikotan: 1 ♀, 1 ♂, 

Otradnaya, Phellodendron sp., 14.VII.1975, Z.A. Kono-

valova; 2 ♂, 2 ♀, Krabozavodsk, 14.VII.1975, I.M. Kerzh-

ner. – Previously recorded from Kunashir (Konova- 

lova, 1985, 1988; Tyatyakovo) and Shikotan (Loginova, 1976: 

Otradnaya; Konovalova, 1978, 1983, 1988: Malo-

kuril’sk).

Calophya nigridorsalis Kuwayama, 1908. Kunashir: 15 ♂, 

24 ♀, Mendeelevo vlc., 11.VIII.1973, I.M. Kerzh-

ner. – Previously recorded from Kunashir (Logino- 

va, 1976 and Konovalova, 1985, 1988: Mendeele- 

eva vlc.).

Calophya phellodendri Logino- 

va, 1976. Kunashir: 1 ♂, 2 ♀, Yuzhno-Kuril’sk, 24 

VIII.1973, I.M. Kerzhner; 2 ♀, 2 ♂, Mendeelevo, 26 


I.M. Kerzhner; 11♂, 13 ♀, Krabozavodsk, 14-15, 

17.VII.1973, I.M. Kerzhner. – Previously recorded from 

Kunashir (Logino- 

va, 1976: Yuzhno-Kuril’sk; Mendeelevo vlc.) and Shikotan (Loginova, 1976: Malokuril’sk; sur-


**Family PSYLLIDAE**

Subfamily APHALARINAE


*Aphalaria polygoni* Förster, 1848. *Simsia*: 1 σ, 5 φ, north end, inland north-eastern from Broutona bay, 47°07.86’N, 152°16.20’E, sweep net, along road, from grasses and herbs, 2.VIII.2000, D.J. Bennett (SH-00-DJB-063a); Kunashir: 1 σ, Tret’yakovka, 4.VII.1976, L.P. Danilovitch.


Subfamily PSYLLINAE


<table>
<thead>
<tr>
<th>Species</th>
<th>SU</th>
<th>PA</th>
<th>ON</th>
<th>RK</th>
<th>SI</th>
<th>CH</th>
<th>UR</th>
<th>IT</th>
<th>KU</th>
<th>SH</th>
<th>ZL</th>
<th>TA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calaphya nigra</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C. nigridorsalis</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C. phellodendri</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C. viridiscutellata</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aphalaria itadori</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A. polygoni</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crespedolepta topica</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ephemiscya katopanacis</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E. sancta</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Livia jesoeensis</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Anonomoneura mori</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cacopylla amabilis</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C. ambigua</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C. fulgurata</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C. hartigi</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C. mali</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C. melanoneura</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C. moscovita</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C. zajcevi</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Psylla alni</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P. aralae</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P. betulæ</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P. canashiri</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P. fumosa</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P. haimatsuocula</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P. malivorella</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P. maizumurai</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P. minima</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P. octomaculata</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P. sorbicola</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bactericera arctica</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B. calcarea</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B. femorata</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Neorhinopsylla takahashii</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Total** | 4  | 4  | 1  | 1  | 1  | 2  | 4  | 3  | 30 | 14 | 1  | 1  |

**Abbreviations**: SU, Shumshu; PA, Paramushir; ON, Onekotan; RK, Raikoke; SI, Simushir; CH, Chirpoi; UR, Urup; IT, Iturup; KU, Kunashir; SH, Shikotan; ZL, Zelhonyi; TA, Tanfilyeva.
Sernovodsk, 15.VII.1973, I.M. Kerzhner; Subfamily TRIOZINAE

B.K. Urbain (ON-96-BKU-023). – Previously recorded B.K. Urbain (SU-97-BKU-048); *


Subfamily TRIOZINAE


Acknowledgements

I am thankful to J. Schweikert (California Academy of Sciences) for the loan of the specimens collected by the American participants of IKIP. The work on the International Expedition was supported in part by the Biological Sciences Directorate (Biotic Surveys and Inventories Program) and the International Program Division of the U.S. National Science Foundation, grant numbers DEB-9400821 and DEB-9506301, Theodore W. Pietsch, principal investigator; the Japan Society for the Promotion of Science, grant number BSAR-401, Kunio Amaoka, principal investigator; the Russian Federal Science and Technology Programme for “Biological Diversity”, state contract number 504-I(00)-1, Viktor V. Bogatov, principal investigator; the Russian Foundation for Basic Research (grant no. 04-04-48727), and the Far Eastern Branch of the Russian Academy of Sciences (grant no. 04-3-A-06-042).

I am also thankful to Yu.M. Marusik (Magadan) for psyllids collected by him. The collection of Zoological Institute RAS is supported by Ministry of education and Science of RF (no. 2-2.20).

References


Received 3 July 2006