

Soviet-Finnish entomological expeditions to Southern Siberia 1982-1984. 2. Tortricidae (Lepidoptera)

V. I. KUZNETSOV * and J. JALAVA **

* Zoological Institute, Academy of Sciences, SU-199034 Leningrad, USSR.

** Zoological Museum, P. Rautatiekatu 13, SF-00100 Helsinki 10, Finland.

Summary

Joint Soviet-Finnish entomological expeditions were carried out to southern Siberia in the years 1982, -83 and -84. This study (No. 2) deals with the family Tortricidae. From the 266 species reported from the area, 201 were found. One species, *Dichrorampha agilana* (TGSTR.) was new to the area. *Selenodes helvomaculanus* (KOSTJ.) is synonymized with *S. aquilonanus* (KARV.). *Tortrix viburniana* ssp. *altaica* CAR. is considered to be a bona sp., *Clepsis altaica*. The composition of the Siberian Tortricid fauna is briefly discussed and a list of the species is given.

Résumé

Au cours des années 1982, 83 et 84, des expéditions scientifiques mixtes soviéto-finlandaises ont parcouru la Sibérie méridionale. La présente étude (No 2) est consacrée à la famille des Tortricidae. Sur les 266 espèces signalées de cette région, 201 ont été retrouvées ; une seule est nouvelle : *Dichrorampha agilana* (TGSTR.). *Selenodes helvomaculanus* est mis en synonymie avec *S. aquilonanus* (KARV.). *Tortrix viburniana* ssp. *altaica* CAR. est considérée comme étant une bona sp., *Clepsis altaica*. La composition des Tortricidae de Sibérie fait l'objet d'une brève discussion, suivie de la liste des espèces reconnues.

Introduction

This study is a part of the results of the joint Soviet-Finnish entomological expeditions to Siberia carried out in the years 1982, 1983 and 1984. The expeditions were a part of the cooperative project no. 20 between the Finnish Academy and the Academy of Sciences of the USSR. The participants from the Finnish side were Dr. K. MIKKOLA (in all three years), Dr. H. HIPPA (1983), Mr. J. JALAVA (1983), Dr. A. PEKKARINEN (1982), Dr. H. SILFVERBERG (1982) and Dr. M. VIITASAARI (1984), and from the Soviet side, entomologists from Novosibirsk : Dr. A. V. BARKALOV, Mr. V. V. DUBATOLOV (both in all three years) and Dr. G. S. ZOLOTARENKO (1983) and from Leningrad : Dr. S. Yu. SINEV (1984) and Dr. V. V. ZLOBIN (1984).

All the expeditions started from Novosibirsk and were directed to the Altai mountains in 1982 and 1983 and to the Baikal area in 1984. The main collecting equipment were light-traps of the model Jalas, operated with the aid of a Honda generator, and also netting in the afternoon sunshine and at dawn.

Although the Tortricidae fauna of Southern Siberia is well known, very little faunistic data has been published (e.g. FALKOVITCH, 1970), the publications usually dealing with descriptions of new species containing only slight faunistic notes (e.g. FILIPJEV, 1925, KOSTJUK, 1978).

Chorological notes

Of the 266 species of Tortricidae recorded from Southern Siberia, 201 species were caught during these three expeditions (75,5%). About 160 (60,1%) species are transpalaeartic or holarctic and usually abundant where they do occur. Some of these are, however, widely distributed in Asia, but only locally found in Northern Europe : *Ancylis kenneli* KUZN. (Asia, The Baltic States, Finland), *Endothenia hebesana* (WLK.) (Holarctic), *Grapholita andabatana* (WOLFF) (Denmark, S. Siberia), some are also recorded in Central Europe, e.g. *Cydia medicaginis* (KUZN.) (Europe, S. Siberia).

A group of boreomontane species is widely distributed in the arctic and subarctic areas and also occur in the mountains of S. Siberia : e.g. *Selenodes aquilonanus* (KARV.), *Apotomis demissana* (KENN.), *A. lemniscatana* (KENN.), *Sparganothis praecana* (KENN.). Some also occur in the Alps : *Trachysmia vulneratana* (ZETT.), *Epiblema simploniana* (DUP.) and *Grapholita aureolana* TGSTR.

The following five mountain species are endemic and are distributed only in the mountain systems of Altai, Sajon, Tuva and Mongolia : *Clepsis tannuolana* KOSTJ., *C. crispinana* (KENN.), *C. altaica* (CAR.), *Amphicoecea adamana* KENN., *Aethes decens* RAZ. and *Gypsonoma mutabilana* KUZN.

Fifteen species are eastern palaeartic and occur from Siberia eastwards to the Pacific, some of them to Japan.

<i>Trachysmia pistrinana</i> (ERSCH.)	<i>Epiblema rotundana</i> (SNELL.)
<i>Eupoecilia citrinana</i> RAZ.	<i>Eucosma fuscida</i> KUZN.
<i>Eugnosta fenestrana</i> RAZ.	<i>E. apocrypha</i> FLKV.
<i>Cochylimorpha hedemanniana</i> (SNELL.)	<i>E. abacana</i> (ERSCH.)
<i>Olethreutes captiosanus</i> FLKV.	<i>Dichrorampha ambrosiana</i> (KENN.)
<i>Hedya vicinana</i> (RAG.)	<i>D. interponana</i> DANIL.
	<i>Matsumuraeses capax</i> RAZ.

Aterpia chalybeia FLKV.
A. circumfluxana (CHR.)

List of species

The systematics of the following list is according to KUZNETSOV, 1978, with some modifications and nomenclatorial changes. The general distribution is based on the literature.



Fig. 1. Collecting localities in Southern Siberia. For key, see text.

The collecting localities (Fig. 1) (the abbreviations used in the list are in brackets) :

1. Novosibirskaja obl., Akademgorodok 30 km S from Novosibirsk (**Novosibirsk**) August 1982, June 1983 and 1984.
2. Novosibirskaja oblast, Karasuk steppe 350 km SW from Novosibirsk (**Karasuk**) August 1982.
3. NW Altai, Teletskoe ozero (**Teletskoe oz.**), Artybash biol. st., taiga 700 m above sea level. August 1982.
4. Gorno-Altajsk, grass-herb meadow 300 m 21.6.1983 (**Gorno-Altajsk**).
5. Valley of the River Katun, 10 km westwards from the village Katanda ca. 50° N, 86° E.
 - 5a. Katun valley (**Katun a**), steppe slopes, forest-steppe 800-1000 m 22.6-27.7.1983.
 - 5b. Kuragan river valley (**Katun b**), taiga 1000 m 6.7., 23.-25.7.1983.
 - 5c. Katunskij hrebet and Terektinskij hrebet (**Katun c**) mountain tundra 2000-2500 m near the village of Katanda 10.-14.7., 20.-21.7.1983.
6. Irkutskaja oblast 1984.
 - 6a. 50 km east of the town Sljudjanka. River Hara-Murin, near lake Baikal,

taiga and 20 year old burnt taiga with deciduous trees and bushes 600 m 6.7.-13.7., 30.7.-31.7.1984 (**Sljudjanka**).

6b. Hamar-Daban mountains south of Sljudjanka, mountain tundra and taiga 1450-2200 m 14.7.-29.7.1984 (**Hamar-Daban**).

6c. 40 km north of Irkutsk, steppe slopes 500 m 1.-3.8.1984 (**Irkutsk**).

The material is mainly deposited in the Zoological Museum, University of Helsinki, Helsinki, Finland.

Tortricinae

Sparganothini

Sparganothis pilleriana (D. & S.) Katun a 17 spm (*). Transpalaeartic.

S. praecana (KENN.) Katun c 28 spm. Mountains of N. Scandinavia, S. Siberia, Mongolia and Kamtchatka.

Cochylini

Falseuncaria ruficiliana (Hw.) Katun a 10 spm, Katun c 1 spm. Europe, Siberia eastwards to Altai.

Cochylis nana (Hw.) Novosibirsk 1983 4 spm, 1984 1 spm, Sljudjanka 1 spm. Holarctic.

C. dubitana (Hb) Novosibirsk 1983 3 spm. Holarctic.

Cochylidia richteriana (F.R.) Novosibirsk 1983 2 spm. Katun a 6 spm, Sljudjanka 1 spm. Transpalaeartic.

C. implicitana (WCK.) Irkutsk 2 spm. Europe S Siberia eastwards to the Baikal area, Central-Asia, N.-Africa.

Agapeta hamana (L.) Katun a 1 spm. Europe, Siberia eastwards to Altai, Mongolia, W. China and the mountains of India.

Aethes moribundana (STGR) Novosibirsk 1983 5 spm, 1984 4 spm, Gorno-Altai 1 spm, Katun a 22 spm, Katun c 1 spm, Irkutsk 3 spm. Europe, S Siberia eastwards to Altai, Iran, Afganistan, Mongolia and W. China.

A. smeathmanniana (F.) Katun c 1 spm, Sljudjanka 2 spm. Holarctic.

A. decens RAZ. Katun c 12 spm. The moths were flying in the early morning sunshine on an alpine grass-herb meadow. Endemic for Altai and Tuva.

A. deutschiana (ZETT.) Katun c 6 spm, Hamar-Daban 1 spm. Holarctic.

A. hartmanniana (CL.) Katun a 5 spm, Katun c 1 spm. Europe, S Siberia eastwards to Altai, Asia Minor.

A. cnicana (WESTW.) Novosibirsk 1984 1 spm, Katun b 1 spm, Sljudjanka 1 spm, Irkutsk 3 spm. Transpalaeartic.

A. tesserana (D. & S.) Novosibirsk 1984 1 spm. Europe, SW Siberia eastwards to Novosibirsk, Asia Minor.

(*) spm = specimen/s.

- A. dilucidana* (STPH.) Novosibirsk 1984 1 spm, Katun a 5 spm. Locally distributed in Europe, N-Africa, Kazakhstan, Central-Asia to Altai.
- A. kindermanniana* (TR.) Teletskoe oz. 1 spm. Holarctic.
- Eupoecilia ambiguella* (HB.) Novosibirsk 1984 1 spm, Sljudjanka 1 spm. Transpalaeartic.
- E. angustana* (HB.) Novosibirsk 1984 2 spm Katun a 1 spm, Sljudjanka 1 spm. Transpalaeartic.
- E. citrinana* RAZ. Irkutsk 3 spm. From W Siberia eastwards to Japan, Mongolia, China.
- Eugnosta fenestrana* RAZ. Irkutsk 3 spm. From Irkutsk eastwards to the Amur area, Mongolia and China.
- Phalonidia manniana* (F.R.) Novosibirsk 1984 1 spm, Karasuk 9 spm. Transpalaeartic.
- P. minimana* (CAR.) Sljudjanka 1 spm. Transpalaeartic.
- Cochylimorpha pyramidana* (STGR.) Irkutsk 1 spm. From the Ural area, Caucasus and Asia Minor eastwards to the Baikal area and Mongolia.
- C. hedemanniana* (SNELL.) Katun a 1 spm. S Siberia, N China and Korea.
- Trachysmia pistrinana* (ERSCH.) Novosibirsk 1983 6 spm, 1984 6 spm, Katun a 5 spm. S Siberia eastwards to Japan, Kazakhstan, Mongolia, China.
- T. inopiana* (HW.) Novosibirsk 1984 1 spm, Katun a 2 spm. Transpalaeartic.
- T. vulneratana* (ZETT.) Katun a 1 spm, Hamar-Daban 10 spm. Transpalaeartic in the northern subarctic zone, in the south locally in mountain systems from the Alps eastwards to Pamir and Japan.
- Eulia ministrana* (L.) Novosibirsk 1984 1 spm. Holarctic.

Cnephasiini

- Cnephasia stephensiana* (DBLD.), Sljudjanka 1 spm. Transpalaeartic.
- C. tianshanica* (FIL.) Katun a 11 spm. From S Ural and Caucasus eastwards to Altai, Kirghisia and NW China.
- C. alticolana* (H.S.) Novosibirsk 1984 1 spm., Katun a 32 spm, Katun b 3 spm, Katun c 5 spm. Europe, Siberia eastwards to Transbaikalia.
- Amphicacoecia adamana* KENN. Katun c 16 spm. Endemic to the S Siberian and Mongolian mountains.
- Eana argentana* (CL.) Katun a 1 spm, Katun c 2 spm, Sljudjanka 1 spm. Holarctic.
- E. osseana* (SC.) Katun b 12 spm, Katun c 1 spm, Hamar-Daban 3 spm. Holarctic.
- E. incanana* (STPH.) Katun b 1 spm, Sljudjanka 1 spm. Transpalaeartic.
- E. penziana* (THNBG) Katun c 3 spm, Hamar-Daban 1 spm. Locally distributed in Europe, Caucasus and Siberia eastwards to Altai.

- E. derivana* (LAH.) Katun a 4 spm. Locally distributed in Europe, eastwards known only from Altai.
- E. andreana* (KENN.) Katun a 1 spm. Locally distributed from the Ural area in the west to Altai and NW China in the east.

Archipini

- Pandemis corylana* (F.) Novosibirsk 1982 2 spm, Teletzkoe oz. 5 spm, Sljudjanka 1 spm. Transpalaeartic.
- P. cinnamomeana* (TR.) Katun a 3 spm, Sljudjanka 2 spm. Transpalaeartic.
- P. cerasana* (HB.) Novosibirsk 1984 5 spm, Karasuk 3 spm, Katun b 1 spm. Transpalaeartic.
- Aphelia unitana* (HB.) Sljudjanka 2 spm. Transpalaeartic.
- A. disjuncta* (FIL.) Katun a 1 ex. A steppe species distributed in S.-Siberia from Minussinsk southwards to Tuva and Mongolia.
- Lozotaenia forsterana* (F.) Katun c 11 spm. Transpalaeartic.
- Clepsis rurinana* (L.) Katun a 1 spm, Katun b 8 spm, Sljudjanka 2 spm. Transpalaeartic.
- C. pallidana* (F.) Karasuk 9 spm, Katun a 1 spm, Irkutsk 9 spm. Transpalaeartic.
- C. crispinana* (KENN.) Katun a 11 spm, Katun b 15 spm, Hamar-Daban 3 spm. The mountains of Altai, Sajan and Mongolia.
- C. tannuolana* KOSTJ. Katun c 79 spm. The moth was extremely common on an alpine grass-herb meadow. AARVIK and LARSEN (1984) compared this species with the very closely related north Norwegian *C. mehli* (OPH.) and found out that the two species are distinct. Endemic for the mountains of Altai and Tuva.
- C. aerosana* (LED.) Hamar-Daban 3 spm. The mountains of Siberia from Ural to the Ussuri area, Mongolia and China.
- C. senecionana* (HB.) Novosibirsk 1983 1 spm, Katun c 1 spm. Transpalaeartic.
- C. altaica* (CAR.) Katun a 2 spm, Katun c 3 spm. CARADJA (1916) described *Tortrix viburniana* ssp. *altaica* and later RAZOWSKI (1981, as *Aphelia*) followed his opinion. However, we consider this to be a bona sp. Endemic to Altai.
- Ptycholoma lecheanum* (L.) Novosibirsk 1984 4 spm, katun a 7 spm, Katun b 1 spm. Transpalaeartic.
- Archips rosanus* (L.) Irkutsk 1 spm. Holarctic.
- A. oporanus* (L.) Katun a 3 spm. Holarctic.
- Syndemis musculana* (HB.) Novosibirsk 1983 8 spm, Katun a 1 spm. Transpalaeartic.
- Paraclepsis cinctana* (D. & S.) Katun a 30 spm. Europe, Asia Minor, S Siberia eastwards to Altai.

- Ptychomoloides aeriferanus* (H.S.) Katun a 10 spm. Transpalaeartic.
Adoxophyes orana (F.R.) Novosibirsk 1984 3 spm, Katun b 3 spm. Transpalaeartic.
Capua vulgana (FRÖL.) Novosibirsk 1983 1 spm, Katun a 4 spm. Transpalaeartic.
Philedone gerningana (D. & S.) Irkutsk 7 spm. Transpalaeartic.

Tortricini

- Acleris laterana* (F.) (= *latifasciana* Hw.) Teletskoe oz. 12 spm, Irkutsk 1 spm. Transpalaeartic.
A. aspersana (Hb.) Karasuk 1 spm, Irkutsk 1 spm. Europe, Kazakhstan, S Siberia eastwards to the Baikal area.
A. notana (DON.) Novosibirsk 1982 1 spm, Teletskoe oz. 1 spm. Holarctic.
A. logiana (CL.) Novosibirsk 1983 2 spm. Holarctic.
A. emargana (F.) Teletskoe oz. 2 spm. Holarctic.

Olethreutinae

Bactrini

- Bactra lancealana* (Hb.) Novosibirsk 1984 1 spm, Sljudjanka 6 spm. Holarctic.
B. furfurana (Hw.) Karasuk 1 spm. Holarctic.

Olethreutini

- Aterpia circumfluxana* (CHRIST.) Novosibirsk 1984 1 spm. In Siberia known only from Novosibirsk. Further distributed in the Amur and Ussuri areas, Japan and China.
A. chalybeia FALKOV. Novosibirsk 1984 2 spm. In Siberia known only from Novosibirsk. Further distributed in the Soviet Far-East and China (KUZNETSOV, 1973).
Pseudosciaphila branderiana (L.) Novosibirsk 1984 1 spm, Katun a 1 spm. Transpalaeartic.
Apotomis lemniscatana (KENN.) Katun c 4 spm. Distributed on the mountains of N Scandinavia and Altai.
A. demissana (KENN.) Katun c 11 spm. Distributed on the mountains of N Scandinavia and Altai.
A. turbidana (Hb.) Novosibirsk 1983 1 spm, 1984 2 spm, Katun a 4 spm, Katun b 3 spm. Transpalaeartic.
A. betuletana (Hw.) Novosibirsk 1984 5 spm. Transpalaeartic.
A. sauciana (FRÖL.) Sljudjanka 1 spm, Hamar-Daban 1 spm. Europe, Siberia.

- Orthotaenia undulana* (D. & S.) Novosibirsk 1984 2 spm, Gorno-Altai 3 spm, Katun a 2 spm, Sljudjanka 1 spm. Holarctic.
- Hedya dimidiana* (CL.) Novosibirsk 1984 1 spm, Sljudjanka 1 spm. Transpalaeartic.
- H. vicinana* (RAG.) Sljudjanka 1 ex., Irkutsk 1 spm. Asiatic part of the USSR from the Salair mountains eastwards to the Ussuri area. China and Japan.
- H. ochroleucana* (FRÖL.) Katun a 7 spm. Holarctic.
- Metendothenia atropunctana* (ZETT.) Novosibirsk 1983 2 spm, Sljudjanka 1 spm. Transpalaeartic. (Holarctic ?).
- Olethreutes arcuellus* (CL.) Novosibirsk 1983 2 spm, Gorno-Altai 1 spm, Katun a 5 spm. Europe, W Siberia eastwards to the River Yenisey, Iran, W China.
- O. captiosanus* FALKOV. Gorno-Altai 1 spm, Sljudjanka 1 spm. Asiatic part of the USSR from Altai to the Kuriles, China, Korea and Japan.
- Selenodes aquilonanus* (KARV.) (= *helvomaculanus* KOSTJ., **syn. nov.**) Katun c 34 spm. From the mountains of N Scandinavia transcontinental through the northern parts of Siberia and the Altai mountains in the south.
- S. roseomaculanus* (H.S.) Katun b 2 spm. Transpalaeartic, but local.
- S. ledianus* (L.) Sljudjanka 6 spm. Transpalaeartic.
- Celypha flavipalpata* (H.S.) Katun a 4 spm, Sljudjanka 1 spm. Transpalaeartic.
- C. cespitana* (HB.) Novosibirsk 1982 1 spm, Gorno-Altai 1 spm, Katun a 11 spm, Irkutsk 1 spm. Holarctic.
- C. rosaceana* (SCHLÄG.) Karasuk 5 spm. Europe, Kazakhstan, Siberia, Mongolia.
- C. rufana* (SCOP.) Irkutsk 2 spm. Europe, Siberia eastwards to the Baikal area.
- C. striana* (D. & S.) Novosibirsk 1984 1 spm, Gorno-Altai 1 spm, Katun a 2 spm, Sljudjanka 1 spm. Transpalaeartic.
- C. capreolana* (H.S.) Katun a 3 spm. Europe, Kazakhstan and S Siberia eastwards to Altai.
- Rudisociaria expeditana* (SNELL.) Katun a 11 spm. Locally distributed in eastern Europe (Bashkiria, the Ural area), eastwards in the Asiatic parts of the USSR to Kamtchatka and the Amur area. Mongolia.
- Capricornia boisduvaliana* (DUP.) Katun a 23 spm, Sljudjanka 1 spm. Transpalaeartic.
- Phiaris bipunctana* (F.) Novosibirsk 1984 1 spm, Sljudjanka 5 spm, Hamar-Daban 3 spm, Irkutsk 1 spm. Transpalaeartic.
- P. siderana* (TR.) Katun a 7 spm, Katun b 1 spm. Holarctic.
- P. turfosana* (H.S.) Katun c 21 spm, Sljudjanka 8 spm, Hamar-Daban 15 spm. The specimens from the mountain tundra are considerably

- larger in size than those from the low altitude peat-bogs in Sljudjanka. However, no differences in the genitalia can be found. Transpalaeartic.
- P. dissolutana* (STANGE) Katun a 8 spm, Katun b 10 spm. Locally distributed in Europe and S Siberia (Kuznetskiy Alatau, Altai).
- P. palustrana* (ZELL.) Katun c 1 spm. Europe, W Siberia.
- P. olivana* (TR.) Sljudjanka 1 spm. Transpalaeartic.
- P. obsoletana* (ZETT.) Katun b 2 spm, katun c 1 spm, Hamar-Daban 9 spm. Transpalaeartic.
- P. metallicana* (HB.) Sljudjanka 3 spm. Transpalaeartic.
- P. inquietana* (WLK.) Katun c 8 spm. The specimens were flying on the mountain tundra at dawn. Widespread in the northern holarctic, southwards known from the mountains of Altai, Sajan and Mongolia.
- Syricoris rivulana* (SCOP.) Katun a 2 spm, Katun b 1 spm, Sljudjanka 3 spm, Irkutsk 1 spm. Transpalaeartic.
- S. lacunana* (D. & S.) Novosibirsk 1983 1 spm, 1984 1 spm, Gorno-Altai 1 spm, Katun b 4 spm, Katun c 3 spm, Sljudjanka 2 spm, Hamar-Daban 2 spm. Holarctic.
- Piniphila decrepitana* (H.S.) Novosibirsk 1984 3 spm. Transpalaeartic.
- Lobesia reliquana* (HB.) Novosibirsk 1984 3 spm, Katun a 11 spm, Sljudjanka 2 spm. Transpalaeartic.
- L. bicinctana* (DUP.) Katun a 3 spm. Holarctic.

Endotheniini

- Endothenia ericetana* (WESTW.) Novosibirsk 1984 2 spm, Katun a 12 spm, Irkutsk 3 spm. Transpalaeartic.
- E. hebesana* (WLK.) Katun a 1 spm, Katun b 1 spm. Holarctic, but local.
- E. marginana* (HW.) Novosibirsk 1983 4 spm, Gorno-Altai 3 spm, Katun a 14 spm, Katun b 1 spm. Transpalaeartic.

Enarmoniini

- Ancylis laetana* (F.) Novosibirsk 1984 1 spm. Transpalaeartic.
- A. kenneli* KUZN. Novosibirsk 1983 1 spm. In Europe in Finland and the Baltic countries, in Asia from the Ural mountains to the Ussuri area, Mongolia and China.
- A. comptana* (FRÖL.) Katun a 3 spm, Katun c 1 spm. Holarctic.
- A. geminana* (DON.) Sljudjanka 2 spm. Transpalaeartic.
- A. upupana* (TR.) Novosibirsk 1984 5 spm. Transpalaeartic.
- A. uncella* (D. & S.) Novosibirsk 1983 1 spm, Katun a 1 spm, Katun c 6 spm. Transpalaeartic.
- A. unguicella* (L.) Katun a 1 spm. Holarctic.
- A. selenana* (GN.) Sljudjanka 1 spm. Transpalaeartic.

- A. badiana* (D. & S.) Novosibirsk 1983 1 spm, 1984 2 spm, Katun a 4 spm, Katun b 1 spm, Sljudjanka 3 spm, Irkutsk 1 spm. Transpalaeartic.
A. myrtiliana (Tr.) Sljudjanka 2 spm, Hamar-Daban 1 spm. Transpalaeartic.

Eucosmini

- Spilonota laricana* (HEIN.) Katun a 11 spm. Holarctic.
Epinotia contrariana (CHRIST.) Katun a 6 spm. Widely distributed in Asia from Minussinsk eastwards to the Pacific coast. Mongolia, China and Japan.
E. signatana (DGL.) Sljudjanka 1 spm. Transpalaeartic.
E. ramella (L.) Katun a 1 spm, Sljudjanka 1 spm. Transpalaeartic.
E. bilunana (Hw.) Katun a 5 spm. Transpalaeartic.
E. tetraquetrana (Hw.) Novosibirsk 1983 12 spm, Gorno-Altai 1 spm, Sljudjanka 6 spm, Hamar-Daban 1 spm. Transpalaeartic.
E. subocellana (DON.) Sljudjanka 3 spm. Transpalaeartic.
E. demarniana (F.R.) Novosibirsk 1984 5 spm, Katun a 6 spm. Transpalaeartic.
E. nisella (CL.) Novosibirsk 1982 3 spm, Karasuk 1 spm, Katun a 1 spm, Irkutsk 1 spm. Holarctic.
E. trigonella (L.) (= *stroemiana* F.) Karasuk 6 spm, Teletskoe oz. 1 spm. Holarctic.
E. solandriana (L.) Novosibirsk 1982 3 spm. Holarctic.
E. thapsiana (ZELL.) Gorno-Altai 1 spm, Katun a 6 spm. Europe, S Siberia eastwards to Altai, Kazakhstan, Tadzikistan.
Zeiraphera griseana (Hb.) Katun a 1 spm. Transpalaeartic.
Z. rufimitrana (H.S.) Teletskoe oz. 14 spm. Transpalaeartic.
Gypsonoma mutabilana KUZN. Hamar-Daban, mountain tundra 16 spm. Previously only known from Altai (KUZNETSOV, 1985).
Rhyacionia pinicolana (DBLD.) Hamar-Daban 1 spm. Europe, Siberia.
R. pinivorana (ZELL.) Novosibirsk 1984 1 spm. Transpalaeartic.
Blastesthia turionella (L.) Novosibirsk 1983 2 spm. Transpalaeartic.
Notocelia cynosbatella (L.) Novosibirsk 1984 1 spm, Katun a 4 spm, Sljudjanka 2 spm. Transpalaeartic.
N. roborana (D. & S.) Katun a 3 spm. Transpalaeartic.
N. incarnatana (Hb.) Irkutsk 3 spm. Transpalaeartic.
N. rosaecolana (DBLD.) katun a 2 spm, Katun b 2 spm. Transpalaeartic.
N. uddmanniana (L.) Katun a 2 spm. Europe, S Siberia, Iran.
Epiblema junctana (H.S.) Novosibirsk 1984 2 spm. Transpalaeartic.
E. foenella (L.) Katun a 3 spm. Transpalaeartic, India.
E. rotundana (SNELL.) Hamar-Daban, taiga 1 spm. Siberia, from Kuznetskiy Alatau eastwards to the Ussuri area.
E. cirsiata (ZELL.) Novosibirsk 1983 6 spm, 1984 1 spm. Transpalaeartic.

- E. simploniana* (DUP.) Katun c 3 spp. A high mountain species distributed in the Alps, mountains of N Scandinavia, Altai, Tuva and Mongolia.
- E. hepaticana* (TR.) Novosibirsk 1984 1 spm, Katun a 4 spm. Europe, Asia Minor, Kazakhstan and S Siberia eastwards to Altai.
- E. graphana* (TR.) Novosibirsk 1983 1 spm, 1984 2 spm, Katun a 12 spm. Transpalaeartic.
- E. turbidana* (TR.) Hamar-Daban 1 spm. Europe, Asia Minor and S Siberia eastwards to the Baikal area.
- Eucosma abacana* (ERSCH.) Katun a 8 spm, Irkutsk 4 spm. Kazakhstan, Siberia eastwards to the Amur area, Japan, Mongolia and China.
- E. tetraplana* (MÖSCHL.) Katun c 5 spm. Widely but locally distributed in Asia Minor, Iran, Kazakhstan, S Siberia from Volga eastwards to the Amur area, Mongolia.
- E. campoliliana* (D. & S.) Gorno-Altai 1 spm, Katun a 1 spm, Sljudjanka 1 spm, Irkutsk 2 spm. Transpalaeartic.
- E. lacteana* (TR.) (= *maritima* WESTW.) Katun a 2 spm. Transpalaeartic.
- E. tundrana* (KENN.) Katun 16 spm, Irkutsk 1 spm. Transpalaeartic.
- E. metzneriana* (TR.) Novosibirsk 1983 7 spm, 1984 3 spm. Transpalaeartic.
- E. apocrypha* FALKOV. Katun a 14 spm. From the S Ural mountains eastwards to the Ussuri area, Mongolia.
- E. conterminana* (GN.) Karasuk 1 spm, Irkutsk 4 spm. Transpalaeartic.
- E. aspidiscana* (HB.) Novosibirsk 1983 7 spm, Gorno-Altai 3 spm, Katun c 7 spm. Transpalaeartic.
- E. fulvana* (STPH.) Katun a 9 spm, Katun b 3 spm. Europe, S Siberia eastwards to Altai, W China.
- E. cana* (HW.) Katun a 1 spm, Sljudjanka 2 spm. Transpalaeartic.
- E. obumbratana* (LIEN & ZELL.) Gorno-Altai 3 spm, Irkutsk 3 spm. Transpalaeartic.
- E. fuscida* KUZN. Novosibirsk 1984 1 spm. Locally distributed in S Siberia and the Amur area.
- Epibactra sareptana* (H.S.) Karasuk 15 spm. Locally distributed in E Europe (Austria, Hungary, Ukraine), eastwards to Armenia, Kazakhstan and S Siberia.
- Pelochrista umbraculana* (EV.) (= *subterminana* ERSCH.) Katun a 21 spm, Katun c 1 spm, Irkutsk 12 spm. From the Ural area eastwards to the Ussuri area, Mongolia and China.
- P. huebneriana* (ZELL.) Katun a 3 spm. Europe, Asia Minor, S Siberia eastwards to Altai, Mongolia.
- P. arabescana* (EV.) Karasuk 9 spm, Katun a 3 spm, Katun c 1 spm, Irkutsk 7 spm. SE Europe (from Rumania to the Volga area), S Siberia, Central-Asia, Iran, Mongolia, China.

- Eriopsela quadrana* (HB.) Katun c 9 spm. Transpalaeartic.
Thiodia hastana (HB.) Katun a 2 spm. Transpalaeartic.
T. citrana (HB.) Katun a 5 spm. Transpalaeartic.
Rhopobota naevana (HB.) Hamar-Daban 2 spm, Irkutsk 4 spm. Holarctic.

Laspeyresiini

- Dichrorampha plumbana* (SCOP.) Novosibirsk 1984 5 spm, Gorno-Altai 7 spm, Katun a 1 spm, Katun b 1 spm. Europe, Siberia eastwards to Minussinsk, in the Far-East only in Kamtchatka.
D. sedatana (BUSCK) Katun a 8 spm, Katun b 1 spm. Holarctic.
D. cinerascens (DANIL.) Katun a, b, c altogether 47 spm. The species was very common in all kinds of biotopes from the steppe region up to the timber line. Europe and S Siberia eastwards to Kuznetskiy Alatau.
D. simpliciana (HW.) Katun a 4 spm, Irkutsk 1 spm. Transpalaeartic.
D. sequana (HB.) Gorno-Altai 1 spm. Europe, Siberia to Kuznetskiy Alatau and the Salair mountains.
D. incognitana (KREMKY & MASLOWSKY) Katun a 33 spm, Katun c 1 spm. Very common on the steppe meadows. Transpalaeartic.
D. gueneana (OBR.) Katun a 45 spm. Transpalaeartic.
D. ambrosiana (KENN.) Katun a 2 spm. Locally distributed in Siberia from Kuznetskiy Alatau in the west to Kamtchatka in the east.
D. petiverella (L.) Gorno-Altai 3 spm, Katun a 4 spm. Transpalaeartic.
D. interponana (DANIL.) Katun b 2 spm. Widely distributed in the asiatic part of the USSR from Kuznetskiy Alatau eastwards to the southern Kuriles and Japan.
D. montanana (DUP.) Katun b 1 spm, Katun c 3 spm, Sludjanka 4 spm. Locally distributed on the mountains of Europe and Siberia.
D. agilana (TGSTR.) Katun b 2 spm. Europe, recorded for the first time in Siberia.
Matsumuraeses capax RAZ. Katun a 1 spm, Sludjanka 2 spm, Irkutsk 1 spm. A siberian species distributed from Altai eastwards to the Ussuri area, Mongolia and China.
Grapholita compositella (F.) Gorno-Altai 1 spm. Transpalaeartic.
G. pallifrontana (ZELL.) Katun a 10 spm. Transpalaeartic.
G. aureolana TGSTR. Katun c 1 spm. The mountain systems of Europe (incl. N Scandinavia) and Siberia.
G. nigrostriana (SNELL.) Novosibirsk 1983 3 spm, Gorno-Altai 1 spm. In Europe known only from W Ukraine, eastwards distributed through the steppe zone from Ural to the Ussuri area.
G. caecana (SCHLÄG.) Novosibirsk 1983 4 spm, Katun a 6 spm. Transpalaeartic.

- G. gemmiferana* (Tr.) Novosibirsk 1983 34 spm, 1984 1 spm. From Central Europe eastwards to the Sajan mountains.
- G. jungiella* (L.) Novosibirsk 1983 1 spm. Transpalaeartic.
- G. orobana* (Tr.) Novosibirsk 1984 1 spm, Katun a 2 spm, Katun b 1 spm. Transpalaeartic.
- G. andabatana* (WOLFF) Sjudjanka 1 spm. Locally in Europe (Denmark, the Baltic states) and S Siberia.
- Pammene aurana* (F.) Katun a 1 spm. Transpalaeartic.
- P. obscurana* (STPH.) Novosibirsk 1983 1 spm, 1984 2 spm, Katun a 4 spm, Katun b 1 spm. Transpalaeartic.
- Cydia nigricana* (F.) Katun a 4 spm. Holarctic.
- C. medicaginis* (KUZN.) Katun a 8 spm. Europe, S Siberia eastwards to Transbaikalia.
- C. illutana* (H.S.) Katun a 4 spm, Katun c 4 spm. Widely, but locally distributed in the Palaeartic region.
- C. cosmophorana* (Tr.) Novosibirsk 1983 1 spm. Transpalaeartic.

References

- AARVIK, L. and LARSEN, K., 1984. *Clepsis mehli* (OPHEIM, 1964) — a distinct species (Lepidoptera, Tortricidae). *Nota Lepid.* 7 (3) : 187-192.
- CARADJA, A., 1916. Beitrag zur Kenntnis der zoogeographischen Verbreitung der Pyraliden und Tortriciden des europäischen Faunengebietes, nebst Beschreibung neuer Formen. *Iris* 30 : 1-88.
- FALKOVITCH, M. I., 1970. Listovertki (Lepidoptera, Tortricidae) predgorij Kuznetstkovo Alatau. *Fauna Sibiri* pp. 222-244. Novosibirsk.
- FILIPJEV, N. N., 1925. Microheterocera des Minussinsk Bezirks. *Ezhegodn. gosud. Muz. N. M. Martyanova. T. 2* (3) : 1-144. Minussinsk.
- KOSTJUK, Ju. A., 1975. [New species of leaf-rollers (Lepidoptera, Tortricidae) from mountains of southern Siberia]. *Vestn. zool., Kiew*, 6 : 34-40. In Russian.
- KUZNETSOV, V. I., 1973. [Leaf-rollers (Lepidoptera, Tortricidae) of the southern part of the Soviet Far-East and their seasonal cycles]. *Horae Soc. Entom. USSR. Leningrad* 56 : 44-161. In Russian.
- KUZNETSOV, V. I., 1978. [21. family Tortricidae (Olethreutidae, Cochyliidae) — leafrollers]. In : *Opredetitel nasekomyh europeiskoi tschasti SSSR*, vol. 4, tom. 1, pp. 193-680. In Russian.
- KUZNETSOV, V. I., 1985. [New representatives of the tribe Eucosmini (Lepidoptera, Tortricidae) of the USSR Asiatic part]. *Vestn. zool., Kiew*, 1 : 3-11. In Russian.
- RAZOWSKI, J., 1981. Revision of the genus *Aphelia* Hb. (Lepidoptera, Tortricidae). *Acta Zool. Cracov.* 25 : 341-388.