

**Data of Geometridae (Lepidoptera) from  
the Korean Peninsula in the collections of the  
Hungarian Natural History Museum –  
subfamilies Ennominae and Geometrinae\***

ZS. BÁLINT & G. KATONA

*Department of Zoology, Hungarian Natural History Museum,  
H-1088 Budapest, Baross utca 13, Hungary.  
E-mails: balint@nhmus.hu, katona@nhmus.hu*

**Abstract** – Data of 180 species of the geometrid subfamilies Ennominae and Geometrinae (148 and 32 taxa, respectively) are presented. Almost four decades of entomological exploration by the Hungarian Natural History Museum in the Korean Peninsula yielded the 3980 specimens discussed here, with a full list of the 230 relevant collecting events. Of the 180 species recorded 53 (~ 30%) turned to be new for the fauna of the northern part of the Korean Peninsula, including *Selenia dentaria* (FABRICIUS, 1775) (from Samjiyon, Prov. Ryanggang) as new to the fauna of entire Korea. A key to the species of *Selenia* HÜBNER, 1823 is given. With 6 figures.

**Key words** – Geometridae, Geometrinae, Ennominae, faunistics, new records, Korean Peninsula, *Selenia dentaria*.

## INTRODUCTION

The cooperation of Korean and Hungarian biologists started more than four decades ago. Initially it meant faunistic investigations in the Korean Peninsula financed by the Hungarian Academy of Sciences. A long series of expeditions were carried out in the course of the first 27 years. The number of collecting events exceeded 1880 and a large amount of arthropods were preserved in the collections of the Hungarian Natural History Museum (HNHM).

\* Zoological Collectings by the Hungarian Natural History Museum in Korea No. 199

One of the favourite groups of arthropods was Lepidoptera, especially macromoths. Therefore HNHM became an important source of Lepidoptera data for the knowledge of the fauna of Korean Peninsula. This is proven by various works treating bombycoid and noctuoid moths in particular, where many published records are based on specimens collected by the Hungarian expeditions (PARK *et al.* 2001).

The family Geometridae represents a diverse group of macromoths, but only a small fragment of the records found in the collections were published (VOJNITS *et al.* 1994). In this paper we take the first steps to list the so far unpublished records with two Geometridae subfamilies, Ennominae and Geometrinae, represented in the Korean Peninsula by 334 species according to the catalogue of KIM *et al.* (2001). Geographical, spatial and temporal data of altogether 3784 specimens of Ennominae (148 species) and 196 Geometrinae (32 species) collected between 31.V.1970 and 8.IV.2006 are given. All these are based on specimens deposited in the HNHM.

## MATERIALS AND METHODS

In the list of 230 collecting events the most important information are compiled from the HNHM records of all the 26 expeditions carried out in Korea by the staff members.

Pinned, set and properly labelled specimens representing ennomine and geometrine macromoths were assembled from the various accession parts of the Hungarian Natural History Museum Lepidoptera collection and arranged by taxa. Some species were identified and curated previously by various workers as KYU-TEK PARK, LÁSZLÓ RONKAY, BALÁZS TÓTH, and ANDRÁS VOJNITS; their curatorial labels were kept in voucher specimens representing the taxa. The material was revised and determined using the monograph of INOUE *et al.* (1982) and the catalogue of KIM *et al.* (2001). Each positively identified specimen was provided with a label containing a unique identification number. According to this the specimen was electronically databased in the "HNHM, coll. Lepidoptera, Korea adatbázis" using the program Microsoft Office Excel 2003.

From the specimen database a list of species was generated. Nomenclature and taxonomy strictly follows the catalogue of KIM *et al.* (2001). The databased specimens are listed according to their subfamilies, genera and species in alphabetical order. After the scientific binomen, the serial number of the collecting events is given (in parenthesis with the specimens recorded) in ascending sequence.

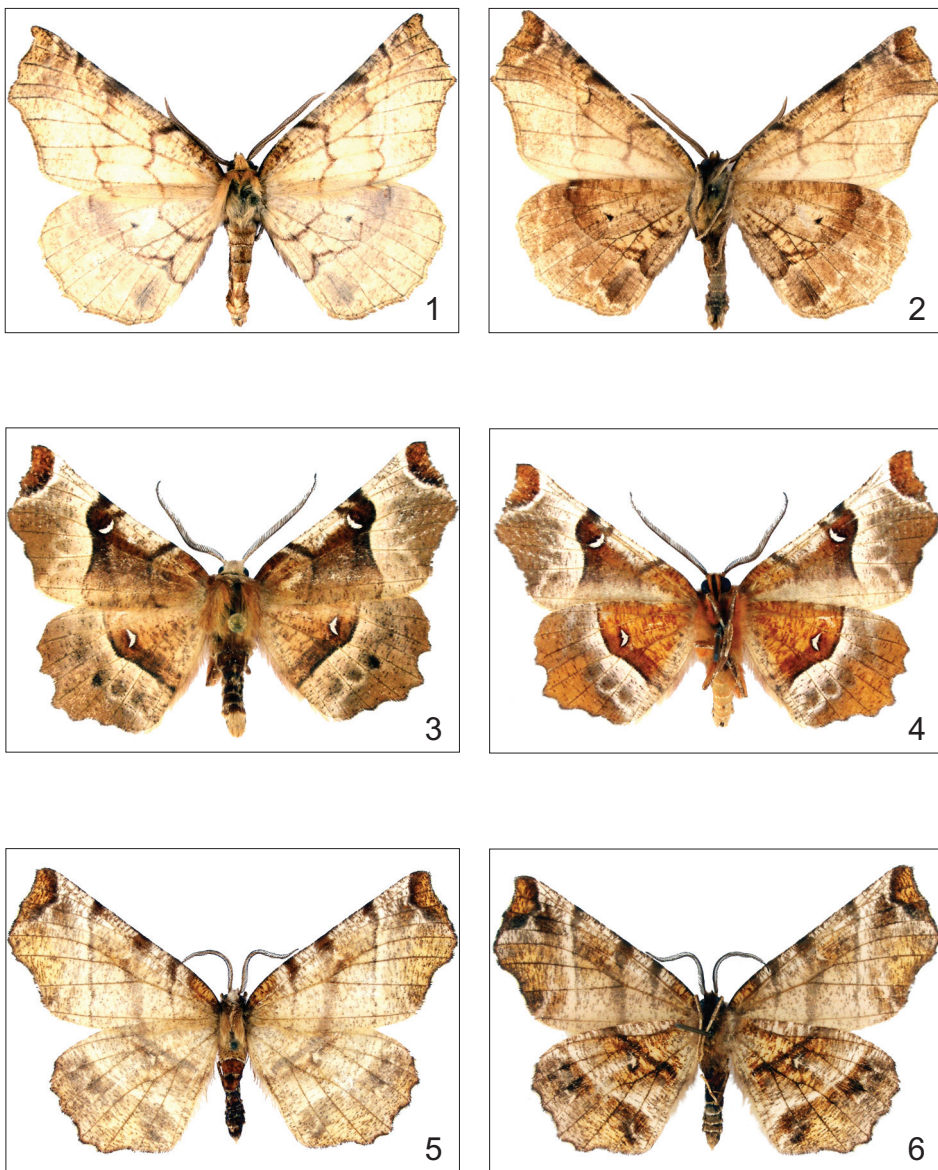
The species marked with an asterisk (\*) proved to be new for the fauna of the northern part of the Korean peninsula (*sensu* KIM *et al.* 2001: 12). These species were diagnosed and documented in the KIM catalogue, but recorded only from the central and southern

parts of the peninsula. *Selenia dentaria* (FABRICIUS, 1775) proved to be new for the fauna of the entire Korean peninsula. It is discussed in a manner compatible with the format of the KIM catalogue, and a key for identification of the congeneric species is also given (Figs 1–6).

## LIST OF COLLECTING EVENTS

Each entry provides the following information: reference number in the List of species, province name, local name of collecting site (sometimes with distance to another settlement or/and altitudinal elevation), date of collecting (day, month and year), comment (on habitat type or collecting method), collector names, country (NK = North Korea, SK = South Korea), expedition serial number.

- 76—Prov. Kanwon, Kum-gang san, environs of Hotel Go-song, 31.V.1970, singled in the Hotel, MAHUNKA, S. & STEINMANN, H., NK, exp. no. 1.
- 150—Prov. South Pyongan, Pyongyan Hotel garden, Pyongyan, 7–8.VIII.1971, caught in Malaise-trap, PAPP, J. & HORVATOVICH, S., NK, exp. no. 2.
- 156—Prov. South Pyongan, Pyongyan Hotel garden, Pyongyan, 9–10.VIII.1971, caught in Malaise-trap. PAPP, J. & HORVATOVICH, S., NK, exp. no. 2.
- 158—Prov. South Pyongan, Lyong-ak san, 25 km, W, Pyongyan, 10.VIII.1971, singled material in deciduous-coniferous forest, PAPP, J. & HORVATOVICH, S., NK, exp. no. 2.
- 181—Prov. South Pyongan, Bongwa-ri, on the riverside Te-dong, ~45 km, E, Pyongyan, 16.VIII. 1971, In rudimental [probably ruderal] vegetation with *Robinia pseudacacia* trees and shrubs. Caught in Malaise-trap, PAPP, J. & HORVATOVICH, S., NK, exp. no. 2.
- 194—Prov. Ryang-gang, Hyesan Hotel garden, Hyesan, 23.VIII.1971, singled material at lamps, PAPP, J. & HORVATOVICH, S., NK, exp. no. 2.
- 195—Prov. Ryang-gang, Chann-Pay plateau, Sam-zi-yan, 1500 m, 24.VIII.1971, singled material in the vegetation of a devastated forest, PAPP, J. & HORVATOVICH, S., NK, exp. no. 2.
- 197—Prov. Ryang-gang, Chann-Pay plateau, Sam-zi-yan, 1600 m, 25.VIII.1971, singled material on flowers of *Larix-Betula* forest, along a road, PAPP, J. & HORVATOVICH, S., NK, exp. no. 2.
- 199—Prov. Ryang-gang, Chann-Pay plateau, Sam-zi-yan Hotel, Sam-zi-yan, 1600 m, 25.VIII.1971, singled material at the lamps of Sam-zi-yan Hotel, PAPP, J. & HORVATOVICH, S., NK, exp. no. 2.
- 208—Prov. Ryang-gang, Chann-Pay plateau, Sam-zi-yan Hotel, Sam-zi-yan, 1700 m, 27.VIII.1971, singled material at the lamps of Sam-zi-yan Hotel, PAPP, J. & HORVATOVICH, S., NK, exp. no. 2.
- 219—Prov. Ryang-gang, Chann-Pay plateau, Sam-zi-yan, 1600 m, 28.VIII.1971, singling at the lamps in *Larix-Betula* forest, PAPP, J. & HORVATOVICH, S. NK, exp. no. 2.
- 225—Prov. South Pyongan, Pyongyan Hotel garden, Pyongyan, 31.VIII.1971, caught in Malaise-trap, PAPP, J. & HORVATOVICH, S., NK, exp. no. 2.



**Figs 1–6.** Specimens of *Selenia* species collected in Korea, deposited in the Hungarian Natural History Museum. 1–2: *S. sordiararia* LEECH, 1897, male, 1 = dorsal view, 2 = ventral view. 3–4: *S. tetralunaria* (HUFNAGEL, 1767) male, 3 = dorsal view, 4 = ventral view. 5–6: *S. dentaria* (FABRICIUS, 1775), male, 5 = dorsal view, 6 = ventral view. Specimens in same scale, forewing length of *S. sordiararia* (Figs 1–2) measured from erection of radius to wing apex 23 mm

- 248 –Kaesong City, garden of city hotel, Kaesong, 8.IX.1971, caught at the lamps of hotel, PAPP, J. & HORVATOVICH, S., NK, exp. no. 2.
- 249 –Kaesong City, Mts Pakyon, Pakyon popo, garden of Pakyon rest home, 27 km, NE, Kaesong, 600 m, 9.IX.1971, caught in Malaise-trap, PAPP, J. & HORVATOVICH, S., NK, exp. no. 2.
- 257 –Kaesong City, Mts Pakyon, Pakyon popo, garden of Pakyon rest home, 27 km, NE, Kaesong, 10–12.IX.1971, caught in Malaise-trap, PAPP, J. & HORVATOVICH, S., NK, exp. no. 2.
- 260 –Kaesong City, Mts Pakyon, both sides of and near to the road between Kaesong and Pakyon popo, 20–21 km, NE, Kaesong, 11.IX.1971, singled on bushy and grassy vegetation, PAPP, J. & HORVATOVICH, S., NK, exp. no. 2.
- 265 –Prov. South Pyongan, city park along river Te-dong, Pyongyang, 16.VII.1975, singled material at lamps, PAPP, J. & VOJNITS, A., NK, exp. no. 3.
- 266 –Prov. South Pyongan, garden of the Embassy of the Hungarian People's Republic, Pyongyang, 16–18.VII.1975, caught in Malaise-trap, PAPP, J. & VOJNITS, A., NK, exp. no. 3.
- 276 –Prov. Ryang-gang, room of Hotel Hyesan, Hyesan, 22.VII.1975, collected at MV lamp, PAPP, J. & VOJNITS, A., NK, exp. no. 3.
- 277 –Prov. Ryang-gang, Chann-Pay plateau, on the road between Hyesan and Sam-zi-yan, 15 km, SSW, Sam-zi-yan, 1600 m, 23.VII.1975, cloudy weather, vegetation wet. Singled material along the road with rich vegetation, wasps (Hym.) and flies (Dipt.) taken mainly on *Angelica dahurica*, PAPP, J. & VOJNITS, A., NK, exp. no. 3.
- 278 –Prov. Ryang-gang, Chann-Pay plateau, Sam-zi-yan, 1700 m, 23.VII.1975, singled material at mv lamp in cloudy weather with some moonlight, PAPP, J. & VOJNITS, A., NK, exp. no. 3.
- 285 –Prov. Ryang-gang, Chann-Pay plateau, Sam-zi-yan, 1700 m, 24.VII.1975, Cloudy weather with full moonlight, 20 °C. Singled material at MV lamp, PAPP, J. & VOJNITS, A., NK, exp. no. 3.
- 287 –Prov. Ryang-gang, Chann-Pay plateau, Mt. Pektusan, Mu-do-bong, 2100–2200 m, 25.VII.1975, sunny weather with cloudy sky, 23–25 °C. Singled material at the meeting of the upper forest and lower grass levels, PAPP, J. & VOJNITS, A., NK, exp. no. 3.
- 290 –Prov. Ryang-gang, room of Hotel Hyesan, Hyesan, 25.VII.1975, collected at MV lamp, PAPP, J. & VOJNITS, A., NK, exp. no. 3.
- 294 –Prov. Ryang-gang, room of Hotel Hyesan, Hyesan, 26.VII.1975, collected at MV lamp, PAPP, J. & VOJNITS, A., NK, exp. no. 3.
- 303 –Prov. Pyong-Sung, Bek-sung-li, Za-mo san, 60 km, NE, Pyongyang, 31.VII.1975, rainy weather, 23 °C. Singled material in sweet chestnut wood in nature conservancy field, PAPP, J. & VOJNITS, A., NK, exp. no. 3.
- 304 –Prov. Pyong-Sung, Bek-sung-li, Za-mo san, 60 km, NE, Pyongyang, 1.VIII.1975, at forenoon rainy weather and 22–24 °C, after 13 o'clock cloudy weather with sunshine and 28–30 °C. Singled material in sweet chestnut wood in nature conservancy field, PAPP, J. & VOJNITS, A., NK, exp. no. 3.



- 315 –Prov. Gang-von, district On-dzong, Kum-gang san, near Hotel Go-song, 250 m, 4.VIII.1975, 26 °C. Collected at MV lamp in a coniferous-locust tree wood, PAPP, J. & VOJNITS, A., NK, exp. no. 3.
- 319 –Prov. Gang-von, district On-dzong, Kum-gang san, near Hotel Go-song, 250 m, 5.VIII.1975, 22 °C. Collected at MV lamp in a coniferous-locust tree wood, PAPP, J. & VOJNITS, A., NK, exp. no. 3.
- 320 –Prov. Gang-von, district On-dzong, Kum-gang san, near Hotel Go-song, 250 m, 4–6.VIII.1975, caught in Malaise-trap, PAPP, J. & VOJNITS, A., NK, exp. no. 3.
- 322 –Prov. Gang-von, district On-dzong, Kum-gang san, near Hotel Go-song, 250 m, 6.VIII.1975, collected at MV lamp in a coniferous-locust tree wood, PAPP, J. & VOJNITS, A., NK, exp. no. 3.
- 325 –Prov. Gang-von, district On-dzong, Kum-gang san, near Hotel Go-song, 250 m, 7.VIII.1975, rainy weather. Collected at MV lamp in a coniferous-locust tree wood, PAPP, J. & VOJNITS, A., NK, exp. no. 3.
- 326 –Prov. Gang-von, district On-dzong, Kum-gang san, near Hotel Go-song, 250 m, 6–8.VIII.1975, caught in Malaise-trap, PAPP, J. & VOJNITS, A., NK, exp. no. 3.
- 351 –Prov. Kangwon, Kum-gang san (= Diamond Mountains), Hotel Kum-gang at village Ontsong, Ontsong, 9.VII.1977, Canopied coniferous forest. Collecting at MV lamp in the forest, about 150–200 m S from the hotel, DELY, O. GY. & DELY-DRASKOVITS, Á., NK, exp. no. 4.
- 360 –Prov. Kangwon, Kum-gang san (= Diamond Mountains), Hotel Kum-gang at village Ontsong, Ontsong, 11.VII.1977, collected at MV lamp in the forest at the ditch along the asphalt road, DELY, O. GY. & DELY-DRASKOVITS, Á., NK, exp. no. 4.
- 365 –Prov. Kangwon, Kum-gang san (= Diamond Mountains), about 2 km W from Hotel Kum-gang, on the left side of the road to Rükhaam, 12.VII.1977, caught in Malaise-trap erected on the riverside, DELY, O. GY. & DELY-DRASKOVITS, Á., NK, exp. no. 4.
- 368 –Prov. Ryanggang, Mt. Pektusan, wooded environs of the Sam-zi-yan hotel, 17.VII. 1977, collecting at MV lamp erected on the shore of a big lake before the hotel (at the edge of the wood), DELY, O. GY. & DELY-DRASKOVITS, Á., NK, exp. no. 4.
- 369 –Prov. Ryanggang, Mt. Pektusan, environs of Explosion Lake, 2000–2500 m, 18.VII. 1977, Netting in grass vegetation, about 2000–2500 m, DELY, O. GY. & DELY-DRASKOVITS, Á., NK, exp. no. 4.
- 373 –Prov. Ryanggang, Mt. Pektusan, wooded environs of the Sam-zi-yan hotel, on the shore of a small lake behind the hotel, 18.VII.1977, collecting at MV lamp erected on the shore of a small lake behind the hotel (at the edge of the wood), DELY, O. GY. & DELY-DRASKOVITS, Á., NK, exp. no. 4.
- 379 –Prov. Ryanggang, Mt. Pektusan, wooded environs of the Sam-zi-yan hotel, 19.VII. 1977, collecting at MV lamp erected on the shore of a big lake before the hotel (at the edge of the wood), DELY, O. GY. & DELY-DRASKOVITS, Á., NK, exp. no. 4.
- 383 –Prov. Ryanggang, Mt. Pektusan, wooded environs of the Sam-zi-yan hotel, 20.VII. 1977, collecting at MV lamp erected on the shore of a big lake before the hotel (at the edge of the wood), DELY, O. GY. & DELY-DRASKOVITS, Á., NK, exp. no. 4.

- 411 –Prov. South Hwanghae, Haeju, 26.IX.1978, collecting from white sheet illuminated by a mixed light and at an other place by a black lamp, VOJNITS, A. & ZOMBORI, L., NK, exp. no. 5.
- 419 –Prov. South Hwanghae, Haeju, 27.IX.1978, collecting from white sheet illuminated by mixed light and at an other place by a black lamp, VOJNITS, A. & ZOMBORI, L., NK, exp. no. 5.
- 470 –Prov. Ryanggang, Samjiyon, 6.X.1978, singled material from a sun-beaten tufa on the shore of a small lake, VOJNITS, A. & ZOMBORI, L., NK, exp. no. 5.
- 542 –Prov. South Hwanghae, Hotel Songhwa, songhwa, 50 m, 17.IX.1979, at the light of a 250 W MV bulb on the terrace of Hotel Songhwa, STEINMANN, H. & VÁSÁRHELYI, T., NK, exp. no. 6.
- 550 –Pyongyang City, Hotel Tae Dong, Pyongyang, 19.IX.1979, at the light of a 160 W MV bulb in the window of Hotel Tae Dong, STEINMANN, H. & VÁSÁRHELYI, T., NK, exp. no. 6.
- 577 –Prov. Kangwon, Mt. Kumgang-san, Hotel Kumgang, 25.IX.1979, at the light of a 250 W MV bulb on the terrace of Hotel Kumgang, STEINMANN, H. & VÁSÁRHELYI, T., NK, exp. no. 6.
- 579 –Prov. Kangwon, near Onjong-ri, 150 m from sea-shore, 26.IX.1979, netted above the surface of a small wayside puddle, 150 m from sea-shore, STEINMANN, H. & VÁSÁRHELYI, T., NK, exp. no. 6.
- 652 –Prov. Chagang, Mt. Myohyang-san, Hotel Myohyang, 12.IX.1980, singled in the vicinity of the hotel, mainly from lamps standing around the hotel, FORRÓ, L. & TOPÁL, GY., NK, exp. no. 7.
- 653 –Prov. Chagang, Mt. Myohyang-san, about 500 m from Hotel Myohyang, 13.IX.1980, singled, mainly from under stones, FORRÓ, L. & TOPÁL, GY., NK, exp. no. 7.
- 663 –Chagang Prov., Mt. Myohyang-san, Hotel Myohyang, 13.IX.1980, singled mainly at lamps standing around the hotel, FORRÓ, L. & TOPÁL, GY., NK, exp. no. 7.
- 665 –Prov. Chagang, Mt. Myohyang-san, Pison waterfall, 14.IX.1980, singled in the vicinity of Pison waterfall, FORRÓ, L. & TOPÁL, GY., NK, exp. no. 7.
- 673 –Prov. Chagang, Mt. Myohyang-san, Hotel Myohyang, 14.IX.1980, singled in the vicinity of the hotel, mainly at lamps standing around the hotel, FORRÓ, L. & TOPÁL, GY., NK, exp. no. 7.
- 690 –Prov. Kangwon, Mt. Kumgang-san, Hotel Kumgang, 17.IX.1980, at the light of a 160 W MV bulb in the window of the hotel and singled from lamps around the hotel and from grasses, FORRÓ, L. & TOPÁL, GY., NK, exp. no. 7.
- 705 –Prov. Kangwon, Mt. Kumgang-san, Hotel Kumgang, 18.IX.1980, at the light of a 160 W MV bulb on the terrace of the hotel, FORRÓ, L. & TOPÁL, GY., NK, exp. no. 7.
- 720 –Prov. Kangwon, Mt. Kumgang-san, Hotel Kumgang, 19.IX.1980, at the light of a 160 W MV bulb on the terrace of the hotel, FORRÓ, L. & TOPÁL, GY., NK, exp. no. 7.
- 738 –Pyongyang City, Hotel Pyongyang, Pyongyang, 7.VII.1982, singled material around lampshade in the garden of the hotel, FORRÓ, L. & RONKAY, L., NK, exp. no. 8.
- 740 –Pyongyang City, Mt. Daesong-san, Lake Mitshon-ho, 8.VII.1982, singled material near Lake Mitshon-ho, FORRÓ, L. & RONKAY, L., NK, exp. no. 8.

- 750 –Pyongyang City, Mt. Daesong-san, Sangsu-mot pond, 8.VII.1982, singled insects near Sangsu-mot pond, FORRÓ, L. & RONKAY, L., NK, exp. no. 8.
- 751 –Pyongyang City, Mt. Daesong-san, Ingo-mot pond, 8.VII.1982, plankton sample taken from Ingo-mot pond, FORRÓ, L. & RONKAY, L., NK, exp. no. 8.
- 754 –Pyongyang City, Pyongyang, 8.VII.1982, material collected in the garden of the hotel, FORRÓ, L. & RONKAY, L., NK, exp. no. 8.
- 756 –Pyongyang City, Mt. Daesong-san, Lake Dongchon-ho, 9.VII.1982, singled material in the vicinity of Lake Dongchon-ho, FORRÓ, L. & RONKAY, L., NK, exp. no. 8.
- 759 –Pyongyang City, Mt. Daesong-san, 9.VII.1982, singled material from feces of cow, FORRÓ, L. & RONKAY, L., NK, exp. no. 8.
- 762 –Pyongyang City, Mt. Ryongak-san, near Mangyongdae Children's Union Camp, 10.VII.1982, singled material from a mixed forest near Mangyongdae Children's Union Camp, FORRÓ, L. & RONKAY, L., NK, exp. no. 8.
- 769 –Pyongyang City, Hotel Pyongyang, Pyongyang, 11.VII.1982, singled material around lampshades in the garden of the hotel, FORRÓ, L. & RONKAY, L., NK, exp. no. 8.
- 778 –Pyongyang City, Mt. Ryongak-san, near Mangyongdae Children's Union Camp, 12.VII.1982, singled material collected in a mixed forest near Mangyongdae Children's Union Camp, FORRÓ, L. & RONKAY, L., NK, exp. no. 8.
- 780 –Prov. North Pyongan, Mt. Myohyang-san, around Hotel Myohyang-san and along the pathway in Manpoktong, 13.VII.1982, singled Lepidoptera material around Hotel Myohyang-san and along the pathway in Manpoktong, FORRÓ, L. & RONKAY, L., NK, exp. no. 8.
- 783 –Prov. North Pyongan, Mt. Myohyang-san, Hotel Myohyang-san, 13.VII.1982, collecting from white sheet illuminated by a mixed light on the balcony of the hotel, FORRÓ, L. & RONKAY, L., NK, exp. no. 8.
- 788 –Prov. North Pyongan, Mt. Myohyang-san, pathway in Manpoktong to Pison waterfall, 14.VII.1982, singled material along the pathway in Manpoktong to Pison waterfall, FORRÓ, L. & RONKAY, L., NK, exp. no. 8.
- 793 –Prov. North Pyongan, Mt. Myohyang-san, Hotel Myohyang-san, 14.VII.1982, collecting from white sheet illuminated by mixed light and at another place by two black lamps, FORRÓ, L. & RONKAY, L., NK, exp. no. 8.
- 803 –Prov. North Pyongan, Mt. Myohyang-san, Hotel Myohyang-san, 15.VII.1982, collecting from white sheet illuminated by a mixed light, FORRÓ, L. & RONKAY, L., NK, exp. no. 8.
- 806 –Prov. North Pyongan, Mt. Myohyang-san, road between Bohyongsa cloister and Hotel Myohyang-san, 16.VII.1982, singled material along the road between Bohyongsa cloister and Hotel Myohyang-san, FORRÓ, L. & RONKAY, L., NK, exp. no. 8.
- 813 –Prov. North Pyongan, Mt. Myohyang-san, Hotel Myohyang-san, 16.VII.1982, collecting from white sheet illuminated by a mixed light, FORRÓ, L. & RONKAY, L., NK, exp. no. 8.
- 818 –Prov. North Pyongan, Mt. Myohyang-san, behind Hotel Myohyang-san, 17.VII.1982, singled material in a mixed forest behind Hotel Myohyang-san, FORRÓ, L. & RONKAY, L., NK, exp. no. 8.



- 820—Prov. North Pyongan, Mt. Myohyang-san, behind Hotel Myohyang-san, 17.VII.1982, material taken from pitfall traps placed out in the forest behind Hotel Myohyang-san, FORRÓ, L. & RONKAY, L., NK, exp. no. 8.
- 821—Prov. North Pyongan, Mt. Myohyang-san, Hotel Myohyang-san, 17. VII. 1982, collecting from white sheet illuminated by mixed light, FORRÓ, L. & RONKAY, L., NK, exp. no. 8.
- 829—Prov. North Pyongan, Mt. Myohyang-san, Hotel Myohyang-san, 18.VII.1982, collecting from white sheet illuminated by mixed light, FORRÓ, L. & RONKAY, L., NK, exp. no. 8.
- 850—Prov. Kangwon, Mt. Kumgang-san, Hotel Kumgang-san, 22.VII.1982, collecting from white sheet illuminated by a mixed light, on the balcony of the hotel, FORRÓ, L. & RONKAY, L., NK, exp. no. 8.
- 857—Prov. Kangwon, Mt. Kumgang-san, pathway to Kuryong Falls, 23.VII.1982, singled material collected along the pathway to Kuryong Falls, FORRÓ, L. & RONKAY, L., NK, exp. no. 8.
- 859—Prov. Kangwon, Mt. Kumgang-san, Hotel Kumgang-san, 23.VII.1982, collecting from white sheet illuminated by a mixed light lamp and at another place by a black lamp, FORRÓ, L. & RONKAY, L., NK, exp. no. 8.
- 861—Prov. Kangwon, Mt. Kumgang-san, Hotel Kumgang-san, 24.VII.1982, collecting from white sheet illuminated by a mixed light lamp and at another place by a black lamp, FORRÓ, L. & RONKAY, L., NK, exp. no. 8.
- 865—Prov. Kangwon, Mt. Kumgang-san, Hotel Kumgang-san, 25.VII.1982, collecting from white sheet illuminated by a mixed light lamp and at another place by a black lamp, FORRÓ, L. & RONKAY, L., NK, exp. no. 8.
- 870—Pyongyang City, Mt. Ryongak-san, near Mangyongdae Children's Union Camp, 27.VII.1982, singled material around lampshades near Mangyongdae Children's Union Camp, FORRÓ, L. & RONKAY, L., NK, exp. no. 8.
- 873—Kaesong City, Hotel Janamsan, Kaesong, 29.VII.1982, collecting from white sheet illuminated by a mixed light lamp, FORRÓ, L. & RONKAY, L., NK, exp. no. 8.
- 887—Kaesong City, Hotel Janamsan, Kaesong, 30.VII.1982, netted and singled material collected in the city park behind the hotel, FORRÓ, L. & RONKAY, L., NK, exp. no. 8.
- 890—Prov. North Hwanghae, sugong-ri, 31.VII.1982, singled material collected in the rest-house, FORRÓ, L. & RONKAY, L., NK, exp. no. 8.
- 894—Prov. South Hwanghae, Mt. Suyong-san, Haeju, 31.VII.1982, collecting from white sheet illuminated by a mixed light lamp, FORRÓ, L. & RONKAY, L., NK, exp. no. 8.
- 916—Pyongyang City, Mt. Daesong-san, 16.V.1985, warm sunny forenoon. Singled material along the road-side, VOJNITS, A. & ZOMBORI, L., NK, exp. no. 9.
- 918—Pyongyang City, on the way to Mangyongdae, 17.V.1985, warm sunny forenoon. Sweeping the degraded vegetation along the road-side, VOJNITS, A. & ZOMBORI, L., NK, exp. no. 9.
- 919—Pyongyang City, Mt. Ryongak-san, 17.V.1985, warm sunny forenoon. Singling specimens by the road-side starting from the top of the mountain and descending to the valley, VOJNITS, A. & ZOMBORI, L., NK, exp. no. 9.

- 923 –Pyongyang City, Mt. Daesong-san, 17.V.1985, night collecting at blended light (250 W) by using a Honda generator, VOJNITS, A. & ZOMBORI, L., NK, exp. no. 9.
- 927 –Prov. North Pyongan, Mt. Myohyang-san, 20.V.1985, cool evening. Night collecting at blended light (250 W) on the balcony of the hotel, VOJNITS, A. & ZOMBORI, L., NK, exp. no. 9.
- 929 –Prov. North Pyongan, Mt. Myohyang-san, 21.V.1985, blue sky with some white clouds, a warm afternoon. Singled material, VOJNITS, A. & ZOMBORI, L., NK, exp. no. 9.
- 933 –Prov. North Pyongan, Mt. Myohyang-san, 21.V.1985, cool evening. Night collecting at blended light in the balcony of the hotel, VOJNITS, A. & ZOMBORI, L., NK, exp. no. 9.
- 934 –Prov. North Pyongan, Mt. Myohyang-san, pathway to Bulyongdae temple, 1000 m, 22.V.1985, warm forenoon, cloudless, blue sky. Pathway to Bulyongdae temple (about 1000 m). Collecting mostly by sweeping net either by singling specimens or sweeping the vegetation, VOJNITS, A. & ZOMBORI, L., NK, exp. no. 9.
- 936 –Prov. North Pyongan, Mt. Myohyang-san, River Hyangsan-chon, 22.V.1985, warm, sunny afternoon. Collecting on a gravel patch in the River Hyangsan-chon. Singling beetles and caddis-flies, VOJNITS, A. & ZOMBORI, L., NK, exp. no. 9.
- 938 –Prov. North Pyongan, Mt. Myohyang-san, 22.V.1985, Pleasant evening. Collecting at blended light on the balcony of the hotel, VOJNITS, A. & ZOMBORI, L., NK, exp. no. 9.
- 939 –Prov. North Pyongan, Mt. Myohyang-san, River Hyangsan-chon, 22.V.1985, pleasant evening. Night collecting at blended light (250 W) by using a Honda generator, some three kilometres off the hotel, by the River Hyangsan-chon, VOJNITS, A. & ZOMBORI, L., NK, exp. no. 9.
- 940 –Prov. North Pyongan, Mt. Myohyang-san, 23.V.1985, warm, sunny forenoon. Collecting specimens mainly by singling, also sweeping the sparse vegetation in a mixed wood around the hotel, VOJNITS, A. & ZOMBORI, L., NK, exp. no. 9.
- 942 –Pyongyang City, Mt. Ryongak-san, 24.V.1985, Pleasant evening. Night collecting at blended light (250 W) fed by a Honda generator, VOJNITS, A. & ZOMBORI, L., NK, exp. no. 9.
- 945 –Prov. Kangwon, Mt. Kumgang-san, around the rest house Oe-Kumgang, 26.V.1985, warm, sunny afternoon, temperature about 26 °C. Singled material in a mixed forest around the rest house Oe-Kumgang, VOJNITS, A. & ZOMBORI, L., NK, exp. no. 9.
- 946 –Prov. Kangwon, Mt. Kumgang-san, around the rest house Oe-Kumgang, 26.V.1985, warm, sunny afternoon, temperature about 26 °C. Sweeping material from the underwood of a mixed forest around the rest house Oe-Kumgang, VOJNITS, A. & ZOMBORI, L., NK, exp. no. 9.
- 948 –Prov. Kangwon, Mt. Kumgang-san, some 100 m from the rest house Oe-Kumgang, 26.V.1985, cool night. Collecting at blended light, fed by a Honda generator, some 100 m from the rest house Oe-Kumgang, in a mixed forest, VOJNITS, A. & ZOMBORI, L., NK, exp. no. 9.
- 949 –Prov. Kangwon, Mt. Kumgang-san, foot-path from Kumgang-mun Gate to the waterfall Kuryong-popo, 27.V.1985, warm, sunny morning, about 24 °C. Singling along the foot-path from Kumgang-mun Gate to the waterfall Kuryong-popo, VOJNITS, A. & ZOMBORI, L., NK, exp. no. 9.

- 954—Prov. Kangwon, Mt. Kumgang-san, Kumgang-mun Gate, 27.V.1985, very cool evening. Night collecting at blended light (250 W) fed by a Honda generator at Kumgang- mun Gate, VOJNITS, A. & ZOMBORI, L., NK, exp. no. 9.
- 955—Prov. Kangwon, Mt. Kumgang-san, serpentine to Kwinyon-am Rock, 28.V.1985, cloudy sky with occasional sunshine, temperature about 20 °C. Singling along the serpentine to Kwinyon-am Rock, VOJNITS, A. & ZOMBORI, L., NK, exp. no. 9.
- 958—Prov. Kangwon, Mt. Kumgang-san, serpentine to Kwinyon-am Rock, 28.V.1985, night collecting at blended light fed by a Honda generator on the serpentine to Kwinyon-am Rock, VOJNITS, A. & ZOMBORI, L., NK, exp. no. 9.
- 959—Prov. Kangwon, Mt. Kumgang-san, in front of the rest house Oe-Kumgang, 29.V. 1985, warm morning. One sawfly specimen was captured flying in front of the rest house Oe-Kumgang, VOJNITS, A. & ZOMBORI, L., NK, exp. no. 9. Note: The specimen having this number was most probably mislabelled, and was collected during the previous event.
- 962—Pyongyang City, Ryongak-san, 30.V.1985, pleasant night. Collecting at a blended light (250 W) fed by a Honda generator, VOJNITS, A. & ZOMBORI, L., NK, exp. no. 9.
- 964—Pyongyang City, Ryongak-san, 31.V.1985, warm, cloudy forenoon, temperature about 22 °C. Singled material on the side of the concrete road, VOJNITS, A. & ZOMBORI, L., NK, exp. no. 9.
- 969—Pyongyang City, Mt Daesong-san, 31.V.1985, cool, windy evening with bright moon in the sky. Night collecting at blended light (250 W) fed by a Honda generator, VOJNITS, A. & ZOMBORI, L., NK, exp. no. 9.
- 984—Prov. Ryanggang, Samjiyon, 3.VI.1985, cold evening with some mist and a full moon. Temperature about 12 °C. Collecting at blended light (250 W) fed by a Honda generator in the *Larix* forest, some 300 m from the hotel, VOJNITS, A. & ZOMBORI, L., NK, exp. no. 9.
- 995—Prov. Ryanggang, Samjiyon, 2100 m, 4.VI.1985, night collecting at blended light (250 W) fed by a Honda generator, in a *Picea* stand at an altitude of about 2100 m. Temperature about 16 °C, VOJNITS, A. & ZOMBORI, L., NK, exp. no. 9.
- 996—Prov. Ryanggang, Samjiyon, 4.VI.1985, night collecting at blended light (250 W) in the park of the hotel with *Larix*, planted *Picea*, ornamental shrubs and *Salix*. Altitude 1800 m, temperature about 18 °C, VOJNITS, A. & ZOMBORI, L., NK, exp. no. 9.
- 1005—Prov. Ryanggang, Samjiyon, 5.VI.1985, night collecting in the park of the hotel. Blended light (250 W), temperature about 20 °C, VOJNITS, A. & ZOMBORI, L., NK, exp. no. 9.
- 1022—Prov. North Pyongan, Mt. Myohyang-san, Hotel Myohyang-san, 8.X.1987, singled around the hotel, KORSÓS, Z, RONKAY, L., KOVÁTS, D. & SZOLLÁT, GY., NK, exp. no. 11.
- 1025—Prov. North Pyongan, Mt. Myohyang-san, Hotel Myohyang-san, 8.X.1987, collected at light at Hotel Myohyang-san, KORSÓS, Z, RONKAY, L., KOVÁTS, D. & SZOLLÁT, GY., NK, exp. no. 11.
- 1030—Prov. North Pyongan, Mt. Myohyang-san, Hotel Myohyang-san, 9.X.1987, collected at light and with sugar around the hotel, KORSÓS, Z, RONKAY, L., KOVÁTS, D. & SZOLLÁT, GY., NK, exp. no. 11.

- 1034 – Prov. North Pyongan, Mt. Myohyang-san, Hotel Myohyang-san, 10.X.1987, collected at light around the hotel, KORSÓS, Z, RONKAY, L., KOVÁTS, D. & SZOLLÁT, GY., NK, exp. no. 11.
- 1036 – Prov. North Pyongan, Mt. Myohyang-san, pathway Isonnam, 11.X.1987, singled on the pathway, KORSÓS, Z, RONKAY, L., KOVÁTS, D. & SZOLLÁT, GY., NK, exp. no. 11.
- 1038 – Prov. North Pyongan, Mt. Myohyang-san, Hotel Myohyang-san, 11.X.1987, material collected on lampshade at the hotel, KORSÓS, Z, RONKAY, L., KOVÁTS, D. & SZOLLÁT, GY., NK, exp. no. 11.
- 1042 – Pyongyang City, Hotel Potonggang, Pyongyang, 13.X.1987, singled at light around the hotel, KORSÓS, Z, RONKAY, L., KOVÁTS, D. & SZOLLÁT, GY., NK, exp. no. 11.
- 1050 – Prov. South Hwanghae, Mt. Suyong-san, Haeju, 16.X.1987, material collected from a white sheet illuminated by a mercury vapour lamp, KORSÓS, Z, RONKAY, L., KOVÁTS, D. & SZOLLÁT, GY., NK, exp. no. 11.
- 1055 – Prov. South Hwanghae, Mt. Suyong-san, Haeju, 17.X.1987, material collected from a white sheet illuminated by a mercury vapour lamp, KORSÓS, Z, RONKAY, L., KOVÁTS, D. & SZOLLÁT, GY., NK, exp. no. 11.
- 1060 – Prov. Kangwon, Mt. Kumgang-san, Hotel Kumgang-san, Onjong-ri, 21.X.1987, moths collected at light near the Hotel Kumgang-san, KORSÓS, Z, RONKAY, L., KOVÁTS, D. & SZOLLÁT, GY., NK, exp. no. 11.
- 1066 – Prov. Kangwon, Mt. Kumgang-san, Onjong-ri, 23.X.1987, collected at light and with sugar in the vicinity of the hotel, KORSÓS, Z, RONKAY, L., KOVÁTS, D. & SZOLLÁT, GY., NK, exp. no. 11.
- 1067 – Prov. Kangwon, Mt. Kumgang-san, pathway Tongsok-dong, 24.X.1987, singled in the forest, KORSÓS, Z, RONKAY, L., KOVÁTS, D. & SZOLLÁT, GY., NK, exp. no. 11.
- 1068 – Prov. Kangwon, Mt. Kumgang-san, Hotel Kumgang-san, Onjong-ri, 24.X.1987, collected at light in the vicinity of the Hotel Kumgang-san, KORSÓS, Z, RONKAY, L., KOVÁTS, D. & SZOLLÁT, GY., NK, exp. no. 11.
- 1174 – Prov. North Pyongan, 8 km, S, Hyangsan, 11.XI.1986, CSORBA, G., DEMETER, A., SIPOS, GY. & IZSÁK, I., NK, exp. no. 10.
- 1363 – Prov. Ryanggang, Mupo, Tuman-gang, 1000 m, 29.VI.1988, rainy warm afternoon. Young *Larix olgensis*-*Betula pendula* forest, with ornamental shrubs along the paths. Singling from the vegetation (blossoming *Syringa robusta*, and other flowering shrubs and herbs), MERKL, O., SZÉL, GY., LÖKÖS, L. & SZERDAHELYI, T., NK, exp. no. 12.
- 1365 – Prov. Ryanggang, Chong-bong, 900 m, 30.VI.1988, rainy, warm forenoon. Dark, dense *Larix olgensis*-*Betula pendula* forest, with shrubs of willow in the clearings. Singling and sweeping from the vegetation, MERKL, O., SZÉL, GY., LÖKÖS, L. & SZERDAHELYI, T., NK, exp. no. 12.
- 1379 – Pyongyang City, Mt. Daesong-san, 21.V.1991, singled insects collected at late afternoon in a dry hillside, RONKAY, L. & VOJNITS, A., NK, exp. no. 13.
- 1381 – Pyongyang City, Mt. Ryongak-san, 22.V.1991, netted insects from a dry rocky forest and a brook valley, RONKAY, L. & VOJNITS, A., NK, exp. no. 13.
- 1383 – Prov. North Pyongan, Mts Myohyang-san, Hotel Myohyang, river Hyangsan, 23.V. 1991, Lepidoptera netted at the vicinity of the hotel and along the river Hyangsan, RONKAY, L. & VOJNITS, A., NK, exp. no. 13.

- 1385 –Prov. North Pyongan, Mts Myohyang-san, Isonnam valley, 23.V.1991, Lepidoptera netted in the valley in late afternoon, RONKAY, L. & VOJNITS, A., NK, exp. no. 13.
- 1386 –Prov. North Pyongan, Mts Myohyang-san, Isonnam valley, 23.V.1991, Lepidoptera collected by a light trap in the lower part of the valley (20–24 h), RONKAY, L. & VOJNITS, A., NK, exp. no. 13.
- 1388 –Prov. North Pyongan, Mts Myohyang-san, Isonnam valley, 23.V.1991, Lepidoptera collected by light (at a white sheet illuminated by a 160 W mixed lamp) in the valley, RONKAY, L. & VOJNITS, A., NK, exp. no. 13.
- 1390 –Prov. North Pyongan, Mts Myohyang-san, Hotel Myohyang, 23.V.1991, Lepidoptera collected by light around the hotel, RONKAY, L. & VOJNITS, A., NK, exp. no. 13.
- 1392 –Prov. North Pyongan, Mts Myohyang-san, Isonnam valley, Habiro temple and Isonnam waterfall, 24.V.1991, netted insects collected at the Habiro temple and the Isonnam waterfall, RONKAY, L. & VOJNITS, A., NK, exp. no. 13.
- 1394 –Prov. North Pyongan, Mts Myohyang-san, Hotel Myohyang, 24.V.1991, Lepidoptera collected by a light trap at the hotel, RONKAY, L. & VOJNITS, A., NK, exp. no. 13.
- 1396 –Prov. North Pyongan, Mts Myohyang-san, Hotel Myohyang, 24.V.1991, Lepidoptera collected by light on the balcony of the hotel, RONKAY, L. & VOJNITS, A., NK, exp. no. 13.
- 1398 –Prov. North Pyongan, Mts Myohyang-san, Hotel Myohyang, 25.V.1991, Lepidoptera collected by light in a mixed forest near to the hotel, RONKAY, L. & VOJNITS, A., NK, exp. no. 13.
- 1400 –Prov. North Pyongan, Mts Myohyang-san, Hotel Myohyang, 25.V.1991, Lepidoptera collected by a light trap in the vicinity of the hotel, RONKAY, L. & VOJNITS, A., NK, exp. no. 13.
- 1404 –Prov. North Pyongan, Mts Myohyang-san, Hotel Myohyang, 26.V.1991, Lepidoptera collected at light at the clearing of a mixed forest near to the hotel, RONKAY, L. & VOJNITS, A., NK, exp. no. 13.
- 1405 –Prov. North Pyongan, Mts Myohyang-san, Hotel Myohyang, 26.V.1991, Lepidoptera collected by a light trap in the vicinity of the hotel, RONKAY, L. & VOJNITS, A., NK, exp. no. 13.
- 1408 –Prov. North Pyongan, Mts Myohyang-san, Isonnam valley, 27.V.1991, Lepidoptera netted along the valley in late afternoon, RONKAY, L. & VOJNITS, A., NK, exp. no. 13.
- 1409 –Prov. North Pyongan, Mts Myohyang-san, Isonnam valley, Habiro temple, 27.V.1991, Coleoptera singled at the vicinity of the Habiro temple, RONKAY, L. & VOJNITS, A., NK, exp. no. 13. Note: The specimen having this number was most probably mislabelled, and was collected during the previous event.
- 1411 –Prov. North Pyongan, Mts Myohyang-san, Hyangsan valley near to the Hwajangam cloister, 27.V.1991, insects singled at light in the Hyangsan valley near to the Hwajangam cloister, RONKAY, L. & VOJNITS, A., NK, exp. no. 13.
- 1412 –Prov. North Pyongan, Mts Myohyang-san, Hyangsan valley near to the Hwajangam cloister, 27.V.1991, Lepidoptera collected by light trap in the Hyangsan valley near to the Hwajangam cloister, RONKAY, L. & VOJNITS, A., NK, exp. no. 13.



- 1415 –Prov. North Pyongan, Mts Myohyang-san, Hyangsan valley, 28.V.1991, singled material collected along the Hyangsan valley, RONKAY, L. & VOJNITS, A., NK, exp. no. 13.
- 1417 –Prov. North Pyongan, Mts Myohyang-san, Hotel Myohyang, 28.V.1991, insects singled at light in a mixed forest near the hotel, RONKAY, L. & VOJNITS, A., NK, exp. no. 13.
- 1419 –Prov. North Pyongan, Mts Myohyang-san, Hotel Myohyang, 28.V.1991, Lepidoptera collected by light trap in the vicinity of the hotel, RONKAY, L. & VOJNITS, A., NK, exp. no. 13.
- 1421 –Prov. North Pyongan, Mts Myohyang-san, Hotel Myohyang, 28.V.1991, Lepidoptera collected by a black light lamp on the balcony of the hotel, RONKAY, L. & VOJNITS, A., NK, exp. no. 13.
- 1424 –Prov. North Khamgen, ~10 km, NNW, Chondjin, 1.VI.1991, netted Lepidoptera collected along a valley about 10 km NNW of Chondjin at late afternoon, RONKAY, L. & VOJNITS, A., NK, exp. no. 13.
- 1426 –Prov. North Khamgen, Chondjin, 1.VI.1991, Lepidoptera collected by light trap, RONKAY, L. & VOJNITS, A., NK, exp. no. 13.
- 1427 –Prov. North Khamgen, Chondjin, 1.VI.1991, Lepidoptera collected at light near to the previous place, RONKAY, L. & VOJNITS, A., NK, exp. no. 13.
- 1431 –Prov. North Khamgen, O-sang-li valley, ~20 km, SW, Chondjin, 3.VI.1991, insects singled in daytime and at light in the O-sang-li valley, about 20 km SW of Chondjin, RONKAY, L. & VOJNITS, A., NK, exp. no. 13.
- 1432 –Prov. North Khamgen, O-sang-li valley, ~20 km, SW, Chondjin, 3.VI.1991, Lepidoptera collected at light in the O-sang-li valley, about 20 km SW of Chondjin, RONKAY, L. & VOJNITS, A., NK, exp. no. 13.
- 1433 –Prov. North Khamgen, Chondjin, 3.VI.1991, Lepidoptera collected by a light trap in a mixed forest in the O-sang-li valley, about 20 km SW of Chondjin, RONKAY, L. & VOJNITS, A., NK, exp. no. 13.
- 1437 –Prov. North Khamgen, Chondjin, 4.VI.1991, Lepidoptera collected by a light trap, RONKAY, L. & VOJNITS, A., NK, exp. no. 13.
- 1438 –Prov. North Khamgen, Chondjin, 4.VI.1991, other insects collected by the light trap, RONKAY, L. & VOJNITS, A., NK, exp. no. 13.
- 1439 –Prov. North Khamgen, Chondjin, 4.VI.1991, Lepidoptera collected at light in a forest clearing near the brook valley, RONKAY, L. & VOJNITS, A., NK, exp. no. 13.
- 1440 –Prov. North Khamgen, in the vicinity of Kumgang, 15 km, NW, Chondjin, 5.VI.1991, Lepidoptera collected in a hilly forest clearing in the vicinity of Kumgang, 15 km NW of Chondjin, RONKAY, L. & VOJNITS, A., NK, exp. no. 13.
- 1442 –Prov. North Khamgen, Chondjin, 5.VI.1991, Lepidoptera collected by a light trap, RONKAY, L. & VOJNITS, A., NK, exp. no. 13.
- 1444 –Prov. North Khamgen, Chondjin, 5.VI.1991, Lepidoptera collected at light at the edge of a mixed deciduous forest, RONKAY, L. & VOJNITS, A., NK, exp. no. 13.
- 1445 –Prov. North Khamgen, Chondjin, 5.VI.1991, other insects collected at light, RONKAY, L. & VOJNITS, A., NK, exp. no. 13. Note: The specimen having this number was most probably mislabelled, and was collected during the previous event.

- 1446 –Pyongyang City, Mts Ryongak-san, Pyongyang, 8.VI.1991, Lepidoptera netted along a valley in daytime, RONKAY, L. & VOJNITS, A., NK, exp. no. 13.
- 1449 –Prov. Kangwon, Mts Kumgang-san, Hotel Kumgang, 9.VI.1991, Lepidoptera collected at light on the balcony of the hotel, RONKAY, L. & VOJNITS, A., NK, exp. no. 13.
- 1451 –Prov. Kangwon, Mts Kumgang-san, near to Hotel Kumgang, 9.VI.1991, Lepidoptera collected by a light trap in a side valley near to Hotel Kumgang, RONKAY, L. & VOJNITS, A., NK, exp. no. 13.
- 1454 –Prov. Kangwon, Mts Kumgang-san, near to Hotel Kumgang, 10.VI.1991, Lepidoptera collected at light in a side valley near to Hotel Kumgang, RONKAY, L. & VOJNITS, A., NK, exp. no. 13.
- 1455 –Prov. Kangwon, Mts Kumgang-san, Hotel Kumgang, 10.VI.1991, Lepidoptera collected by a light trap in an other side valley in the vicinity of the hotel, RONKAY, L. & VOJNITS, A., NK, exp. no. 13.
- 1458 –Prov. Kangwon, Mts Kumgang-san, pathway to Manmulsang Rocks, 750 m, 11.VI.1991, Lepidoptera collected at light at the beginning of the pathway to Manmulsang Rocks, RONKAY, L. & VOJNITS, A., NK, exp. no. 13.
- 1461 –Prov. Kangwon, Mts Kumgang-san, road between Onjong-ri and Kumgang, 12.VI.1991, Lepidoptera collected in a side valley along the road between Onjong-ri and Kumgang in daytime, RONKAY, L. & VOJNITS, A., NK, exp. no. 13.
- 1463 –Prov. Kangwon, Mts Kumgang-san, pathway to Manmulsang Rocks, 750 m, 12.VI.1991, Lepidoptera collected by light trap at the beginning of the pathway to Manmulsang Rocks, RONKAY, L. & VOJNITS, A., NK, exp. no. 13.
- 1465 – Prov. Kangwon, Mts Kumgang-san, pathway to Manmulsang Rocks, 750 m, 12.VI.1991, Lepidoptera collected at light at the beginning of the pathway to Manmulsang Rocks, RONKAY, L. & VOJNITS, A., NK, exp. no. 13.
- 1468 –Prov. Kangwon, Mts Kumgang-san, Kuryong valley, 13.VI.1991, Lepidoptera collected in afternoon in the lower part of the valley, RONKAY, L. & VOJNITS, A., NK, exp. no. 13.
- 1470 –Prov. Kangwon, Mts Kumgang-san, near to Hotel Kumgang, 13.VI.1991, Lepidoptera collected at light in a side valley near to Hotel Kumgang, RONKAY, L. & VOJNITS, A., NK, exp. no. 13.
- 1472 –Prov. Kangwon, Mts Kumgang-san, near to Hotel Kumgang, 13.VI.1991, Lepidoptera collected by a light trap near to Hotel Kumgang, RONKAY, L. & VOJNITS, A., NK, exp. no. 13.
- 1474 –Prov. Kangwon, Mts Kumgang-san, Kuryong valley, 14.VI.1991, Lepidoptera collected by light trap in the lower part of the valley, RONKAY, L. & VOJNITS, A., NK, exp. no. 13.
- 1476 –Prov. Kangwon, Mts Kumgang-san, Kuryong valley, 14.VI.1991, Lepidoptera collected at light in a clearing of a mixed pine forest at the lower part of the Kuryong valley, RONKAY, L. & VOJNITS, A., NK, exp. no. 13.
- 1496 –Prov. North Pyongan, Mt. Myohyang-san, Myohyangsan Hotel, Hyangsan, 4.VII.1991, in the close environs of the Myohyangsan Hotel, MÉSZÁROS, F. & ZOMBORI, L., NK, exp. no. 14.

- 1544 –Pyongyang City, Potonggang Hotel, Pyongyang, 10.VII.1991, beating the flowers of an ornamental *Dahlia* sp. in the garden of the Potonggang Hotel, MÉSZÁROS, F. & ZOMBORI, L., NK, exp. no. 14.
- 1588 –Prov. Kangwon, Kumgang-san, Hotel Kumgang, 1–4.VIII.1991, night collecting from white wall illuminated by black light at the Hotel Kumgang, BÁLDI, A. & WALICZKY, Z., NK, exp. no. 15.
- 1589 –Prov. Chagang, Chongchon Hotel, Hyangsan village, 8–12.VIII.1991, night collecting from white wall illuminated by black light at the Chongchon Hotel, BÁLDI, A. & WALICZKY, Z., NK, exp. no. 15.
- 1605 –Cheju Province, Hallim-up, path to the cave Pillemont-gul, 11.X.1991, collecting along the path to the cave Pillemont-gul. Warm, sunny day, ZOMBORI, L., SK, exp. no. 16.
- 1607 –Prov. South Kangwon, 12 km, NE, Chuncheon, 15.VIII.1992, in the valley of a small river. Material collected at a white screen illuminated with a 125 W mercury vapour lamp, RONKAY, L. & VOJNITS, A., SK, exp. no. 17.
- 1608 –Prov. South Kangwon, Mts Seolak-san, near Sorak-plaza, 16.VIII.1992, material collected at an illuminated white screen, RONKAY, L. & VOJNITS, A., SK, exp. no. 17.
- 1610 –Prov. South Kangwon, Mts Seolak-san, 15 km W of Sorak-plaza, 700 m, 17.VIII.1992, material collected at an illuminated white screen at a forest edge in a deep river-valley, cca 700 m, RONKAY, L. & VOJNITS, A., SK, exp. no. 17.
- 1611 –Prov. South Kangwon, Mts Seolak-san, 15 km W of Sorak-plaza, 17.VIII.1992, Lepidoptera collected with a portable light trap placed in a mixed deciduous forest, RONKAY, L. & VOJNITS, A., SK, exp. no. 17.
- 1618 –Prov. South Cholla, Mts Paekun-san, 500 m, 19.VIII.1992, other insects collected by the light trap, RONKAY, L. & VOJNITS, A., SK, exp. no. 17. Note: The specimen having this number was most probably mislabelled, and was collected during the previous event.
- 1628 –Prov. Cheju, Cheju-do island, Mts Halla-san, Halla-san National Park, 1280 m, 22.VIII.1992, Other insects collected at light, RONKAY, L. & VOJNITS, A., SK, exp. no. 17.
- 1633 –Prov. Cheju, Cheju-do island, Mts Halla-san, at the eastern edge of the Halla-san National Park, songpanak, 750 m, 23.VIII.1992, Lepidoptera collected by a portable light trap at a forest clearing, RONKAY, L. & VOJNITS, A., SK, exp. no. 17.
- 1637 –Prov. Cheju, Cheju-do island, Mts Halla-san, 5 km, SW, Cheju city, 500 m, 24.VIII.1992, Lepidoptera collected at an illuminated screen in a bushy forest clearing before a heavy thunderstorm, RONKAY, L. & VOJNITS, A., SK, exp. no. 17.
- 1639 –Prov. Cheju, Cheju-do island, Mts Halla-san, 5 km, SW, Cheju city, 500 m, 24.VIII.1992, Lepidoptera collected by a portable light trap placed on a small forest clearing, RONKAY, L. & VOJNITS, A., SK, exp. no. 17.
- 1641 –Prov. South Kangwon, vic. of Chuncheon, Chuncheon-Dam, Chuncheon, 400 m, 19.X.1993, a steep rocky slope covered by dry, warm, partly shrubby, mixed forests near an artificial lake. Lepidoptera collected with a 125 W mercury vapour lamp and two portable light-traps operating with 6 W UV-tubes, PEREGOVITS, L. & RONKAY, L., SK, exp. no. 18.

- 1642** –Prov. South Kangwon, vic. of Chuncheon, soyang-Dam, Chuncheon, 700 m, 20.X. 1993, a narrow, gorge-like rocky valley with a small brook with dense herbaceous and shrubby vegetation and with old mixed forests. Lepidoptera collected at a white screen illuminated by a 125 W mercury vapour lamp, by two portable light-traps and with sugar-baits, PEREGOVITS, L. & RONKAY, L., SK, exp. no. 18.
- 1644** –Prov. South Kangwon, Bongmyong-ri, 21 km, SE, Chuncheon, 500 m, 21.X.1993, a long, rather narrow brook-valley and a north-western slope with mixed deciduous forests. Lepidoptera collected at a white screen illuminated by a 125 W mercury vapour lamp, by two portable light-traps and with sugar-baits, PEREGOVITS, L. & RONKAY, L., SK, exp. no. 18.
- 1649** –Prov. South Kangwon, vic. of Chuncheon, Chuncheon-Dam, Chuncheon, 400 m, 24.X.1993, a steep rocky slope covered by dry, warm, partly shrubby mixed forests near an artificial lake. Lepidoptera collected with sugar-baits, a white screen illuminated by 125 W mercury vapour lamp and by two portable light-traps, PEREGOVITS, L. & RONKAY, L., SK, exp. no. 18.
- 1651** – Prov. South Kangwon, vic. of Chuncheon, Chuncheon-Dam, Chuncheon, 400 m, 24.X.1993, Lepidoptera collected with sugar-baits and with torches, PEREGOVITS, L. & RONKAY, L., SK, exp. no. 18.
- 1653** –Prov. Cheju, Halla-san National Park, 1000 m, 27.X.1993, a mixed deciduous forest with dense, often bushy herbaceous vegetation, understory dominated by *Sasa* sp. (bamboo). Lepidoptera collected by sugar baits, a white screen illuminated by a 125 W mercury vapour bulb and by two portable light traps, PEREGOVITS, L. & RONKAY, L., SK, exp. no. 18.
- 1655** –Prov. Cheju, Halla-san National Park, Songpanak, 750 m, 28.X.1993, a mixed, old deciduous forest with dense herbaceous vegetation. Lepidoptera at a white screen illuminated by a 125 W mercury vapour bulb placed under the roof of a souvenir shop at the edge of the National Park. There was a heavy rainfall and very strong SW wind during the day and the whole night but the temperature was over 15 degrees centigrade, PEREGOVITS, L. & RONKAY, L., SK, exp. no. 18.
- 1660** –Prov. Cheju, Halla-san National Park, 1100 m, 30.X.1993, a mixed deciduous forest with dense, often bushy herbaceous vegetation dominated by *Sasa* sp. Lepidoptera collected by sugar baits, a white screen illuminated by a 125 W mercury vapour bulb and by two portable light traps operating with 6 W UV-tubes, PEREGOVITS, L. & RONKAY, L., SK, exp. no. 18.
- 1665** –Prov. South Cholla, Mt Paekun-san, at the vicinity of Nonshil, Nonshil, 550–650 m, 1.XI.1993, Lepidoptera collected along two deep, narrow brook valleys, in rich, mixed deciduous forests with sugar baits, at a white screen illuminated by a 125 W mercury vapour bulb and by two portable light traps operating with 6 W UV-tubes, PEREGOVITS, L. & RONKAY, L., SK, exp. no. 18.
- 1668** –Prov. Kyongsang, Mt Palgong-san, Natural Park, 15 km, N, Taegu, 700 m, 21.IV. 1994, Lepidoptera collected at light, by light traps and sugar baits at a steep, rocky slope with shrubby forests and grassland patches and in a narrow stream valley, PEREGOVITS, L., RONKAY, L. & VOJNITS, A., SK, exp. no. 19.

- 1670 –Prov. Kyongsang, Mt. Palgong-san, Natural Park, 16 km, N, Taegu, 750 m, 22.IV.1994, Lepidoptera, Trichoptera and Hymenoptera collected at light, also by light traps and sugar baits at edges of a mixed forest close to a christian temple, in misty weather with drizzling rain, PEREGOVITS, L., RONKAY, L. & VOJNITS, A., SK, exp. no. 19.
- 1672 –Prov. Kyongsang, Mts Pohyonsan, at the forest experimental station, between Wolmae and Pohyon-sa, 800 m, 23.IV.1994, Lepidoptera collected at white screen illuminated by 125 W UV lamp, PEREGOVITS, L., RONKAY, L. & VOJNITS, A., SK, exp. no. 19.
- 1677 –Prov. Kyongsang, Mts Pohyonsan, at the forest experimental station, between Wolmae and Pohyon-sa, cca 3 km S of the forest experimental station, 600 m, 24.IV.1994, Another side-valley, cca 3 km S of the forest experimental station. Lepidoptera collected at light, by light-traps and sugar baits, PEREGOVITS, L., RONKAY, L. & VOJNITS, A., SK, exp. no. 19.
- 1680 –Prov. Cheju, Mt Halla-san, Yongshil route, edge of the Halla-san National Park, 1050 m, 27.IV.1994, Lepidoptera collected at light, by light-traps and sugar baits, PEREGOVITS, L., RONKAY, L. & VOJNITS, A., SK, exp. no. 19.
- 1684 –Prov. Cheju, Mt Halla-san, 3 km, S, songpanak, 630–650 m, 29.IV.1994, Lepidoptera collected at light and by light-traps. A mixed deciduous forest with scattered *Sasa* patches but without stronger covering of *Sasa*, one of the light traps was placed close to a dried stream valley, PEREGOVITS, L., RONKAY, L. & VOJNITS, A., SK, exp. no. 19.
- 1686 –Prov. Cheju, Mt Halla-san, Yongshil route, edge of the Halla-san National Park, 1050 m, 30.IV.1994, Lepidoptera collected at light, by light-traps and sugar baits. Mixed deciduous forests with a few conifers and with dense *Sasa* undergrowth, PEREGOVITS, L., RONKAY, L. & VOJNITS, A., SK, exp. no. 19.
- 1688 –Prov. Cheju, Mt Halla-san, Yongshil route, 1300–1700 m, 1.V.1994, arthropods singled along the pathway during the day, PEREGOVITS, L., RONKAY, L. & VOJNITS, A., SK, exp. no. 19.
- 1690 –Prov. South Kangwon, vic. of Chuncheon, Chuncheon-Dam, Chuncheon, 400 m, 5.V.1994, a steep rocky slope covered by dry, warm, partly shrubby mixed forests near to an artificial lake. Lepidoptera collected at light and by three portable light-traps, PEREGOVITS, L., RONKAY, L. & VOJNITS, A., SK, exp. no. 19.
- 1692 –Prov. South Kangwon, Jiam-ri, ~20 km, NW, Chuncheon, 700 m, 6.V.1994, a deep, montane brook-valley with various types of forest habitats and with large patches of planted coniferous trees. Lepidoptera collected by three portable light-traps and at light, PEREGOVITS, L., RONKAY, L. & VOJNITS, A., SK, exp. no. 19.
- 1695 –Prov. South Kangwon, vic. of Chuncheon, soyang-Dam, Chuncheon, 700 m, 20.X.1993, a narrow, gorge-like rocky valley with a small brook with dense herbaceous and shrubby vegetation and with old mixed forests. Lepidoptera collected at a white screen illuminated by a 125 W mercury vapour lamp and by three portable light-traps, PEREGOVITS, L., RONKAY, L. & VOJNITS, A., SK, exp. no. 19.
- 1702 –Prov. Kangwon, sorak-san, on road no. 44, 700 m, 12.X.2001, collecting at light and on sugar baits, KUN, A. & RONKAY, L., SK, exp. no. 21.



- 1703 –Prov. Kangwon, Misir-yong, on the road back to Chunchon, 13.X.2001, nocturnal moths collected around the lights of the hostel and restaurant in the daytime, KUN, A. & RONKAY, L., SK, exp. no. 21.
- 1706 –Prov. Chollanam, Paekun-san, Nonshil, 550 m, 18.X.2001, collecting at light and on sugar baits, KUN, A. & RONKAY, L., SK, exp. no. 21.
- 1707 –Prov. Chollanam, Chiri-san, 500 m, 19.X.2001, collecting at light and on sugar baits, KUN, A. & RONKAY, L., SK, exp. no. 21.
- 1709 –Prov. Cheju, Jeju Island, 250 m, 21.X.2001, collecting at light, KUN, A. & RONKAY, L., SK, exp. no. 21.
- 1733 –Prov. Kyongsangbuk, Dosansewon, 20 km, N, Andong, 180 m, 10.XI.2002, singled invertebrates, CSORBA, G., KORSÓS, Z., MÉSZÁROS, F., PAPP, B. & RONKAY, L., SK, exp. no. 22.
- 1734 –Prov. Kyongsangbuk, near Kimchon, Chikchi-sa, 180 m, 11.XI.2002, singled invertebrates, CSORBA, G., KORSÓS, Z., MÉSZÁROS, F., PAPP, B. & RONKAY, L., SK, exp. no. 22.
- 1736 –Prov. Kangwon, Chuncheon-Dam, 169 m, 26.VIII.2003, collecting at light, FÖLDVÁRI, M. & KUN, A., SK, exp. no. 23.
- 1741 –Prov. Kangwon, Wolgok-ri, Chuncheon, 104 m, 29.VIII.2003, collecting at light, FÖLDVÁRI, M. & KUN, A., SK, exp. no. 23.
- 1746 –Gyeongbug Prov., Mt. Noak, sangju, 165 m, 3.IX.2003, collecting at light, FÖLDVÁRI, M. & KUN, A., SK, exp. no. 23.
- 1886 –Prov. Kangwon, Gapyeong, 124 m, 26.X.2005, UV light, bait trap, KORSÓS, Z. & KUN, A., SK, exp. no. 25.
- OTHER\_1 –Prov. Kangwon, Kangchon, 100 m, 21.III.2006, RONKAY, L., TÓTH, M., SK.
- OTHER\_2 –Prov. Kangwon, Bongmyehung-ri near the university Research Station, 230 m, 23.III.2006, RONKAY, L. & TÓTH, M., SK.
- OTHER\_3 –Prov. Chollabuk, Kwangju Mt. Mudeng, 550 m, 8.IV.2006, RONKAY, L. & TÓTH, M., SK.
- OTHER\_4 –Prov. North Chungcheong, Daemun-Li, Jincheon, S. CHO, S. C. NAM, J. S. LEE, SK.
- OTHER\_5 –Prov. Chungbuk, Mt Weolak-san, Jaechon Songgyae, 222 m, 18.VI.2004, J. C. SOHN, SK.

## LIST OF SPECIES

### Ennominae

- Abraxas grossulariata* (LINNAEUS, 1758) – 285 (1), 379 (3), 1445 (1), 1446 (2)
- Abraxas karafutonis* MATSUMURA, 1925 – 285 (34), 303 (1), 360 (1), 379 (2)
- Abraxas latifasciata* WARREN, 1894 – 315 (1), 319 (1), 322 (1), 325 (5), 818 (1), 1411 (1), 1449 (1), 1476 (1)

- Abraxas nipponibia* WEHRLI, 1935 – 325 (9), 705 (1), 850 (1), 859 (2), 865 (1), 887 (1), 919 (1), 923 (1), 933 (2), 939 (2), 940 (2), 942 (5), 948 (4), 958 (1), 962 (4), 969 (3), 1388 (2), 1396 (2), 1404 (4), 1405 (3), 1411 (16), 1412 (1), 1417 (4), 1419 (7), 1433 (2), 1446 (1), 1449 (8), 1472 (6), 1474 (1), 1476 (2), 1496 (1), 1605 (1), 1607 (1), 1610 (3), 1639 (1), 1692 (2)
- \* *Acrodontis fumosa* (PROUT, 1930) – 663 (1), 1030 (1), 1034 (2), 1706 (4)
- \* *Acrodontis kotschubeji* SHELJUZO, 1930 – 1030 (1), 1034 (2), 1706 (4)
- \* *Aethalura ignobilis* (BUTLER, 1878) – 320 (3), 859 (1), 923 (1), 942 (1), 1379 (1), 1386 (1), 1396 (1), 1432 (5), 1433 (5), 1437 (1), 1439 (1), 1442 (1), 1444 (1), 1449 (1), 1451 (1), 1455 (2), 1468 (1), 1476 (2), 1686 (1), 1690 (3)
- Aethalura nanaria* (STAUDINGER, 1897) – 933 (1), 1396 (2), 1417 (2), 1449 (1), 1468 (1), 1476 (2), 1686 (7)
- Agriopsis dira* (BUTLER, 1878) – OTHER\_1 (3), OTHER\_2 (2)
- Alcis angulifera* (BUTLER, 1878) – 1030 (1), 1451 (1), 1641 (8), 1649 (7), 1653 (3), 1655 (10), 1703 (1)
- Alcis castigaria* (BREMER, 1864) – 1432 (1), 1433 (2), 1437 (1), 1439 (3)
- Alcis extinctaria* (EVERSMANN, 1851) – 1465 (2)
- Alcis jubata* (THUNBERG, 1788) – 373 (1), 379 (2), 820 (1)
- \* *Alcis medialbifera* INOUE, 1972 – 195 (1), 199 (2), 208 (3), 219 (1), 665 (1)
- \* *Alcis picata* (BUTLER, 1881) – 194 (1), 197 (1), 208 (1), 285 (7), 373 (2), 379 (1)
- Amraica superans* (BUTLER, 1878) – 290 (1), 322 (1), 325 (1), 351 (2), 383 (1), 470 (1), 780 (1), 793 (1), 857 (1), 958 (1), 962 (1), 1388 (1), 1398 (1), 1404 (1), 1411 (1), 1427 (3), 1433 (5), 1437 (1), 1439 (2), 1444 (4), 1451 (2), 1454 (2), 1455 (1), 1463 (1), 1465 (4), 1468 (2), 1470 (1), 1472 (11), 1474 (5), 1476 (1)
- Angerona prunaria* (LINNAEUS, 1758) – 277 (1), 278 (1), 285 (1), 287 (1), 315 (3), 319 (1), 322 (3), 325 (1), 705 (4), 720 (1), 894 (1), 948 (12), 958 (1), 962 (3), 1363 (3), 1449 (2), 1451 (10), 1455 (6), 1470 (1), 1472 (2), 1474 (3), 1611 (3)
- Anticipella diffusaria* (LEECH, 1897) – 780 (1), 783 (4), 793 (1), 803 (1), 806 (1), 820 (1), 821 (2)
- Aperia syringaria* (LINNAEUS, 1758) – 278 (1), 1396 (1), 1421 (1)
- Apocolotois arnoldiaria* (OBERTHÜR, 1912) – 1025 (1), 1030 (3)
- \* *Aporhoptrina semiorbiculata* (CHRISTOPH, 1881) – 1411 (2)
- \* *Arichanna albomacularia* LEECH, 1891 – 1388 (1), 1394 (1), 1405 (1), 1417 (1), 1692 (4)
- Arichanna melanaria* (LINNAEUS, 1758) – 278 (1), 285 (4), 294 (1), 365 (2), 383 (1), 783 (3), 793 (1), 829 (1), 969 (1), 1446 (16), 1449 (7), 1451 (13), 1454 (1), 1455 (17), 1465 (1), 1470 (2), 1472 (2), 1474 (1), 1476 (1), 1449 (1)
- Ascotis imparata* (WALKER, 1860) – 1637 (1), 1639 (1)
- Ascotis selenaria* (DENIS et SCHIFFERMÜLLER, 1775) – 315 (1), 319 (5), 322 (5), 829 (1), 859 (1), 948 (1), 1449 (4), 1465 (1)
- \* *Biston melacron* WEHRLI, 1941 – 850 (1)
- Biston thoracicaria* (OBERTHÜR, 1884) – 322 (1), 325 (2), 861 (1), 969 (1)
- Biston betularia* (LINNAEUS, 1758) – 285 (4), 290 (2), 294 (4), 1463 (1)
- \* *Biston panterinaria* (BREMER et GREY, 1853) – 351 (4), 360 (5), 751 (1), 778 (3), 1449 (5), 1451 (7), 1454 (5), 1455 (4), 1470 (7), 1472 (4), 1476 (1)

- Biston regalis* (MOORE, 1888) – 783 (1), 813 (1), 821 (1), 850 (1), 870 (3)  
*Bizia alteria* (WEHRLI, 1954) – 793 (2)
- \* *Bupalus vestalis* STAUDINGER, 1897 – 945 (1), 958 (2), 1692 (1)  
*Cabera griseolimbata* (OBERTHÜR, 1879) – 783 (1), 788 (1), 793 (1), 803 (1), 1449 (1), 1451 (1), 1455 (1), 1470 (1)  
*Cabera purus* (BUTLER, 1878) – 276 (4), 294 (2), 319 (3), 322 (1), 325 (1), 351 (2), 379 (1), 783 (2), 788 (3), 850 (3), 940 (1), 1365 (1), 1386 (2), 1388 (4), 1394 (2), 1396 (2), 1404 (2), 1411 (1), 1412 (1), 1417 (7), 1419 (13), 1421 (1), 1426 (1), 1427 (4), 1433 (4), 1437 (7), 1439 (2), 1442 (1), 1444 (3), 1455 (2), 1468 (2), 1470 (2), 1472 (3), 1476 (1), 1633 (1), 1639 (1)  
*Calicha nooraria* (BREMER, 1864) – 793 (1)  
*Cepphis advenaria* (HÜBNER, 1790) – 1417 (2), 1419 (1), 1455 (1)  
*Chariaspilates formosaria* (EVERSMANN, 1837) – 248 (1), 1639 (1)
- \* *Chiasmia cinerearia* (BREMER et GREY, 1853) – 859 (1), 1446 (1)  
*Chiasmia clathrata* (LINNAEUS, 1758) – 315 (1), 1424 (1), 1427 (1), 1433 (1), 1437 (1), 1465 (1)
- \* *Chiasmia defixaria* (WALKER, 1861) – 778 (1), 788 (1), 861 (1), 1446 (1)  
*Chiasmia hebesata* (WALKER, 1861) – 315 (4), 319 (4), 322 (6), 325 (6), 783 (1), 894 (3), 933 (1), 948 (2), 962 (1), 964 (1), 969 (1), 1379 (1), 1388 (2), 1427 (1), 1433 (2), 1439 (4), 1449 (1), 1451 (1), 1455 (6), 1468 (2), 1470 (2), 1588 (3), 1608 (1), 1628 (1), 1639 (1)
- \* *Chiasmia ornataria* (LEECH, 1897) – 870 (1), 942 (3), 962 (2), 1381 (2)
- \* *Cleora leucophaea* (BUTLER, 1878) – 939 (1), 954 (1), 1005 (1), 1388 (1), 1411 (2), 1432 (6), 1470 (1), 1680 (12), 1686 (44), 1690 (2), OTHER\_3 (1)
- \* *Cleora repulsaria* (WALKER, 1860) – 1396 (1)
- \* *Cleora venustaria* (LEECH, 1891) – 783 (1), 1396 (2), 1417 (2)
- \* *Colotois pennaria* (LINNAEUS, 1761) – 1030 (11), 1034 (1), 1038 (2), 1066 (3), 1068 (3), 1544 (1), 1641 (24), 1642 (6), 1644 (7), 1649 (4), 1653 (2), 1665 (4), 1702 (8), 1886 (1)  
*Corymica pryeri* (BUTLER, 1878) 948 (2), 962 (1), 1449 (1), 1470 (1), 1472 (1)  
*Cryptochorina amphidasyaria* (OBERTHÜR, 1880) – 1668 (3), 1672 (1), 1677 (4)  
*Ctenognophos grandinaria* (MOTSCHULSKY, 1861) – 1741 (1)  
*Cusiala stipitaria* (OBERTHÜR, 1880) – 76 (1), 322 (6), 783 (2), 793 (1), 813 (2), 850 (1), 865 (2), 894 (1), 919 (1), 923 (1), 927 (1), 933 (2), 1383 (1), 1386 (1), 1394 (1), 1396 (9), 1398 (1), 1417 (1), 1427 (1), 1432 (1), 1439 (1), 1449 (1), 1465 (1), 1476 (1), 1690 (1), 1692 (1)  
*Cystidia stratonice* (STOLL, 1782) – 780 (3), 788 (1)  
*Deileptenia ribeata* (CLERCK, 1759) – 278 (2), 285 (8), 360 (1), 368 (1), 373 (8), 379 (8), 829 (2)
- \* *Descoreba simplex* BUTLER, 1878 – 939 (1), 1386 (2), 1388 (2), 1417 (3), 1668 (24), 1670 (1), 1672 (2), 1677 (9), 1680 (27), 1686 (27), 1690 (7), 1692 (11)  
*Devenilia corearia* (LEECH, 1891) – 158 (1), 276 (1), 750 (1), 783 (2), 850 (1), 865 (3), 894 (2), 962 (4), 964 (1), 1432 (1), 1433 (2), 1451 (1), 1455 (9), 1470 (1), 1472 (4), 1474 (3), 1476 (5), 1589 (3)
- \* *Duliophyle agitata* (BUTLER, 1878) – 249 (1), 1608 (1)

- Ectropis crepuscularia* (DENIS et SCHIFFERMÜLLER, 1775) – 315 (4), 319 (5), 322 (2), 325 (7), 756 (1), 780 (2), 783 (1), 820 (1), 873 (1), 894 (1), 918 (1), 923 (3), 929 (1), 933 (1), 934 (1), 939 (2), 940 (1), 942 (3), 948 (5), 958 (1), 962 (6), 984 (1), 996 (6), 1005 (25), 1030 (1), 1381 (3), 1383 (1), 1385 (2), 1386 (2), 1388 (6), 1392 (1), 1394 (2), 1396 (2), 1400 (1), 1404 (10), 1405 (3), 1408 (1), 1409 (1), 1411 (1), 1417 (9), 1419 (7), 1427 (5), 1433 (2), 1437 (2), 1439 (1), 1446 (1), 1455 (2), 1458 (1), 1461 (1), 1468 (1), 1472 (2), 1474 (1), 1476 (2), 1607 (1), 1668 (1), 1672 (4), 1677 (6), 1680 (1), 1686 (24), 1688 (1), 1690 (2), 1692 (11)
- Ectropis excellens* (BUTLER, 1884) – 995 (2), 996 (5), 1005 (14)
- \**Ectropis obliqua* (PROUT, 1915) – 322 (1), 325 (2), 762 (1), 778 (2), 813 (1), 861 (1), 1472 (2)
- Eilicrinia nuptaria* BREMER, 1864 – 319 (1), 325 (2), 793 (4), 821 (1), 829 (1), 1386 (1), 1396 (1), 1417 (1), 1692 (1)
- Endropiodes indictinaria* (BREMER, 1864) – 326 (1), 780 (1), 793 (2), 829 (1), 929 (2), 939 (3), 940 (1), 958 (3), 959 (1), 962 (2), 1383 (1), 1385 (3), 1386 (3), 1388 (5), 1390 (1), 1396 (2), 1398 (1), 1404 (2), 1408 (1), 1411 (2), 1417 (2), 1419 (2), 1421 (1), 1439 (1), 1463 (1), 1465 (1), 1677 (1), 1690 (1)
- Ennomos autumnaria* (WERNEBURG, 1859) – 579 (1), 663 (1)
- Ennomos infidelis* (PROUT, 1929) – 351 (1), 360 (1), 783 (1), 1034 (1)
- Epholca arenosa* (BUTLER, 1878) – 351 (3), 383 (4), 793 (1), 940 (1), 1394 (2), 1437 (1), 1454 (2), 1470 (2), 1476 (2)
- \**Erannis golda* DJAKONOV, 1929 – 1030 (1), 1038 (2), 1038 (1), 1042 (2), 1641 (9), 1649 (21), 1651 (7), 1653 (1), 1660 (1), 1665 (1), 1702 (1), 1707 (2), 1733 (1), 1734 (1), 1645 (1)
- Erebomorpha fulguraria* WALKER, 1860 – 927 (2), 939 (4), 1396 (1), 1404 (1), 1417 (1), 1432 (2), 1442 (1), 1444 (13), 1455 (1), 1465 (1), 1470 (1), 1686 (1), 1695 (1)
- Euchrotophia cumulata* (CHRISTOPH, 1881) – 829 (1)
- Exangerona prattaria* (LEECH, 1891) – 1736 (3)
- Fascellina chromataria* WALKER, 1860 – 954 (1), 969 (1), 1454 (1), 1465 (1), 1476 (1), 1637 (4), 1639 (1), 1736 (1)
- Garaeus mirandus* (BUTLER, 1881) – 1388 (1)
- Gnophos agnitaria* STAUDINGER, 1897 – 690 (1), 705 (1), 1363 (1)
- \**Heterarmia buettneri* (HEDEMANN, 1881) – 1470 (1), 1472 (1)
- \**Heterolocha aristonaria* WALKER, 1860 – 365 (1), 383 (3), 762 (1), 778 (1), 894 (1), 933 (2), 964 (1), 1379 (1), 1388 (1), 1390 (1), 1396 (1), 1404 (2), 1405 (1), 1411 (1), 1417 (9), 1419 (3), 1451 (1), 1472 (1), 1736 (1)
- Hypomecis crassestrigata* (CHRISTOPH, 1881) – 870 (2), 1449 (1)
- \**Hypomecis pseudopunctinalis* (WEHRLI, 1923) – 276 (1), 278 (4), 285 (15), 287 (4), 373 (5), 379 (5), 1449 (1)
- Hypomecis punctinalis* (SCOPOLI, 1763) – 76 (1), 278 (1), 315 (1), 319 (2), 322 (4), 325 (3), 351 (2), 740 (1), 754 (1), 762 (2), 778 (3), 923 (2), 933 (3), 939 (5), 942 (2), 948 (14), 948 (1), 954 (2), 958 (2), 962 (1), 1381 (2), 1383 (1), 1388 (4), 1400 (1), 1404 (3), 1405 (7), 1411 (2), 1412 (1), 1417 (4), 1427 (3), 1433 (3), 1437 (3), 1439 (2), 1444 (1), 1446 (1), 1449 (2), 1455 (2), 1468 (1), 1472 (2), 1474 (1), 1476 (4), 1686 (3), 1692 (7)

- \* *Hypomecis roboraria* (DENIS et SCHIFFERMÜLLER, 1775) – 322 (5), 325 (4), 720 (2), 793 (1), 948 (3), 962 (5), 1451 (2), 1454 (1), 1455 (3), 1470 (1), 1608 (1), 1610 (2), 1639 (2)  
*Isturgia vapulata* (BUTLER, 1878) – 1639 (3)  
*Jankowskia athleta* OBERTHÜR, 1884 – 780 (4), 783 (4), 859 (1)  
*Jankowskia fuscaria* (LEECH, 1891) – 690 (4), 705 (14), 720 (22), 1446 (1), 1449 (5), 1451 (5), 1455 (9), 1470 (4), 1472 (7), 1476 (6), 1608 (1), 1610 (2), 1618 (1), 1736 (1), 1746 (1)  
*Lassaba nikkonis* (BUTLER, 1881) – 1680 (1), 1686 (5)
- \* *Ligdia japonaria* (LEECH, 1897) – 1463 (1)  
*Lomaspilis marginata* (LINNAEUS, 1758) – 276 (1), 290 (1), 294 (3), 320 (1), 1386 (1)  
*Lomographa bimaculata* (FABRICIUS, 1775) – 320 (1), 351 (1), 365 (1), 938 (1), 948 (1), 1038 (1), 1386 (1), 1388 (1), 1404 (2), 1417 (1), 1419 (1), 1433 (1), 1455 (8), 1461 (2), 1463 (2), 1470 (1), 1472 (2), 1474 (1), 1476 (5), 1670 (1)
- \* *Lomographa nivea* (DJAKONOV, 1936) – 923 (1), 933 (1), 942 (11), 962 (5), 1455 (2)
- \* *Lomographa pulverata* (BANG-HASS, 1910) – 939 (1), 1396 (1), 1427 (2), 1439 (3), 1444 (1)  
*Lomographa temerata* (DENIS et SCHIFFERMÜLLER, 1775) – 276 (1), 285 (1), 783 (1), 829 (1), 923 (1), 933 (2), 939 (2), 940 (1), 942 (7), 948 (1), 962 (18), 1005 (1), 1381 (1), 1385 (1), 1386 (1), 1386 (2), 1388 (10), 1394 (1), 1396 (3), 1400 (1), 1412 (2), 1419 (1), 1433 (1), 1463 (1), 1465 (1), 1680 (5), 1684 (1), 1686 (13)
- Macaria brunneata* (THUNBERG, 1784) – 285 (1), 373 (1), 379 (3)  
*Macaria liturata* (CLERCK, 1759) – 278 (2), 285 (3), 315 (1), 322 (1), 373 (1), 379 (2), 793 (1), 813 (1), 933 (2), 936 (1), 939 (2), 962 (2), 1394 (1), 1396 (1), 1427 (1), 1432 (3), 1433 (1), 1444 (3), 1680 (2), 1692 (2), 1736 (1)  
*Macaria shanghaiaria* WALKER, 1861 – 150 (1), 156 (1), 181 (1), 225 (1), 315 (1), 750 (1), 818 (1), 850 (1), 859 (2), 870 (1), 873 (1), 887 (1), 894 (2), 948 (1), 962 (5), 1381 (1), 1417 (1), 1433 (1), 1437 (1), 1440 (1), 1446 (2), 1455 (7), 1470 (2), OTHER\_4 (1)  
*Meganobiston plumosaria* (LEECH, 1891) – 1665 (3), 1706 (1), 1707 (1), 1734 (3)  
*Meichihuo cihuay* YANG, 1978 – OTHER\_1 (4)
- \* *Menophra senilis* (BUTLER, 1878) – 783 (1), 793 (1), 813 (2), 829 (2), 865 (1), 923 (2), 933 (2), 939 (1), 948 (1), 1394 (1), 1396 (3), 1411 (2), 1417 (4), 1419 (1), 1427 (3), 1431 (1), 1432 (2), 1433 (2), 1439 (2), 1451 (3), 1455 (1), 1461 (2), 1463 (1), 1465 (1), 1610 (1), 1684 (10), 1686 (16), 1690 (1), 1692 (1)
- \* *Meteima mediorufa* (BASTELBERGER, 1911) – 923 (1), 933 (1), 948 (1), 1690 (6), 1692 (20)  
*Microcalicha invenustaria* LEECH, 1897 – 962 (1), 1411 (1)
- \* *Microcalicha seolagiensis* BELJAEV et PARK, 1998 – 1455 (2), 1472 (2)
- \* *Myrteta angelica* BUTLER, 1881 – 652 (3), 653 (1), 663 (6), 673 (2), 720 (1), 1030 (1)  
*Narraga fasciolaria* (THUNBERG, 1784) – 290 (1)
- \* *Ninodes splendens* (BUTLER, 1878) – 939 (1), 942 (3), 946 (1), 948 (15), 962 (10), 969 (1), 1411 (4), 1417 (1), 1446 (1)  
*Ninodes watanabei* INOUE, 1976 – 1396 (1), 1411 (2), 1690 (1)  
*Obeidia tigrata* (GUENÉE, 1858) – 304 (1), 780 (1), 783 (1), 788 (5), 803 (1)  
*Odonoptera arida* (BUTLER, 1878) – 1655 (1), 1677 (3), 1680 (11), 1684 (35), 1686 (37)  
*Odonoptera bidentata* (CLERCK, 1759) – 285 (1), 996 (1), 1388 (1), 1432 (9), 1433 (2), 1463 (1), 1692 (4)



- Ophthalmitis irrorataria* (BREMER et GREY, 1853) – 820 (1), 894 (1), 1411 (2)  
*Ophthalmitis albosignaria* (BREMER et GREY, 1853) – 319 (1), 351 (1), 783 (3), 1386 (1), 1388 (2)  
*Ourapteryx nivea* BUTLER, 1883 – 290 (1), 705 (1), 1655 (10), 1709 (6), 1465 (1)  
*Ourapteryx subpunctaria* LEECH, 1891 – 1455 (3), 1470 (1), 1472 (2), 1476 (3)  
*Oxymacaria normata* (ALPHÉRAKY, 1892) – 1639 (3), 1686 (3)  
*Pachyerannis obliquaria* (MOTSCHULSKY, 1861) – 1022 (1), 1034 (1), 1038 (2), 1066 (1), 1067 (1)  
*Pachyligia dolosa* BUTLER, 1878 – 1672 (1), 1677 (1), 1686 (4), 1692 (1)  
*Parabapta clarissa* (BUTLER, 1878) – 351 (2), 383 (1), 740 (1), 850 (1), 923 (2), 933 (4), 939 (8), 940 (2), 942 (25), 948 (6), 954 (16), 955 (2), 958 (30), 962 (5), 1174 (1), 1386 (2), 1388 (4), 1392 (1), 1394 (2), 1396 (2), 1398 (1), 1400 (1), 1411 (3), 1417 (3), 1419 (6), 1421 (1), 1427 (3), 1432 (1), 1439 (1), 1444 (1), 1449 (2), 1451 (1), 1455 (12), 1461 (1), 1468 (2), 1472 (3), 1680 (1), 1690 (9), 1692 (3)  
*Pareclipsis gracilis* (BUTLER, 1879) – 1637 (1), 1639 (1), 1680 (1), 1684 (33), 1686 (38), 1690 (1)  
*Parectropis nigrosparsa* (WILEMAN et SOUTH, 1917) – 351 (10), 373 (1), 383 (1), 762 (6), 778 (4), 818 (1), OTHER\_5 (1)  
*Parectropis similaria* (HUFNAGEL, 1767) – 351 (4), 379 (1), 948 (5), 954 (2), 958 (7), 1388 (1), 1417 (2), 1419 (1), 1449 (1), 1465 (1), 1476 (1), 1692 (1), 780 (1), 1451 (1), 1455 (1), 1476 (1)  
*Petrophora chlorosata* (SCOPOLI, 1763) – 939 (1), 940 (1), 1424 (1), 1426 (1), 1427 (12), 1432 (1), 1433 (1), 1439 (2), 1444 (2), 1690 (7), 1692 (1)  
\**Phanerothyris sinearia* (GUENÉE, 1858) – 1386 (2), 1394 (1)  
*Phigalia viridularia* BELJAEV, 1996 – OTHER\_3 (1)  
*Phigaliohybernia latifasciaria* BELJAEV, 1996 – OTHER\_3 (2)  
*Phthonandria atrilineata* (BUTLER, 1881) – 1611 (1), 1633 (1), 1639 (1), 1736 (1)  
\**Phthonandria emaria* (BREMER, 1864) – 1470 (1)  
*Phthonosema corearia* (LEECH, 1891) – 322 (1)  
*Phthonosema serratilineararia* (LEECH, 1891) – 265 (1), 266 (1), 738 (1), 754 (1), 756 (1), 769 (1), 778 (1), 870 (1)  
*Phthonosema tendinosaria* (BREMER, 1864) – 887 (1), 1390 (1), 1396 (1), 1398 (1), 1411 (2), 1415 (1), 1417 (1), 1736 (1)  
*Plagodis dolabraria* (LINNAEUS, 1767) – 322 (1), 939 (2), 958 (1), 1388 (6), 1398 (1), 1465 (1), 1474 (1), 1680 (1), 1684 (4), 1686 (6)  
*Plagodis pulveraria* (LINNAEUS, 1758) – 285 (1), 315 (1), 319 (2), 325 (1), 351 (1), 360 (1), 383 (1), 783 (2), 821 (1), 870 (1), 923 (2), 939 (4), 949 (1), 954 (2), 958 (5), 1005 (4), 1383 (1), 1386 (3), 1388 (2), 1400 (1), 1405 (1), 1411 (2), 1417 (4), 1419 (2), 1426 (1), 1439 (1), 1461 (1), 1463 (1), 1607 (1), 1668 (1), 1670 (1), 1677 (1), 1690 (2), 1692 (7), 1610 (1)  
*Polymixinia appositaria* (LEECH, 1891) – 652 (1), 705 (1), 1470 (2), 1746 (1)  
\**Protoboarmia simplicaria* (LEECH, 1897) – 962 (1), 1385 (1), 1388 (3), 1390 (1), 1392 (1), 1398 (1), 1404 (24), 1411 (5), 1417 (5), 1419 (14), 1438 (1)

- \* *Pseudepione magnaria* (WILEMAN, 1911) – 1025 (3), 1030 (5), 1034 (1), 1038 (2), 1644 (1), 1649 (1)
- \* *Pseudepione shiraii* INOUE, 1943 – 1706 (42), 1707 (4)
- \* *Pseuderannis lomozemia* (PROUT, 1930) – 933 (1), 938 (2), 939 (1), 1388 (4), 1394 (1), 1396 (1), 1400 (1), 1415 (1), 1427 (1), 1668 (6), 1677 (6), 1680 (2), 1686 (4), 1690 (5), 1692 (4)
- \* *Psyra boarmiata* (GRAESER, 1892) – 1365 (1), 1692 (1)
- Racotis petrosa* (BUTLER, 1879) – 1668 (4), 1684 (1), 1686 (40), 1690 (1)
- \* *Ramobia mediodivisa* (INOUE, 1953) – 1025 (1), 1030 (7), 1034 (4), 1036 (1), 1038 (2), 1706 (5), 1707 (2)
- Rikiosatoa grisea* (BUTLER, 1879) – 257 (1), 322 (2), 577 (2), 663 (5), 690 (28), 705 (46), 720 (53), 1451 (14), 1455 (31), 1470 (1), 1472 (3), 1476 (1), 1746 (2)
- Satoblephara parvularia* (LEECH, 1891) – 320 (1), 1607 (1), 1692 (3)
- Scardamia aurantiacaria* BREMER, 1864 – 322 (1), 369 (1), 759 (1), 788 (1), 861 (1)
- \* *Selenia dentaria* (FABRICIUS, 1775) – 996 (1), 1005 (2)
- \* *Selenia sordiararia* LEECH, 1897 – 933 (1), 939 (1), 1388 (2), 1390 (2), 1404 (1), 1417 (2), 1419 (1), 1692 (1).
- Selenia tetralunaria* (HUFNAGEL, 1767) – 322 (1), 821 (1), 1005 (1), 1386 (1), 1390 (1), 1394 (1), 1400 (1), 1417 (2), 1419 (1), 1677 (1)
- Spilopera debilis* (BUTLER, 1878) – 278 (2), 322 (1), 939 (2), 969 (1), 1388 (8), 1390 (1), 1408 (1), 1411 (1), 1417 (2), 1419 (3), 1421 (1), 1427 (9), 1432 (3), 1433 (2), 1437 (1), 1439 (8), 1444 (5), 1455 (1), 1463 (1), 1465 (1), 1468 (2), 1470 (1), 1474 (1), 1690 (8), 1692 (1)
- \* *Stegania cararia* (HÜBNER, 1790) – 783 (1), 829 (1)
- Synegia esther* BUTLER, 1881 – 1633 (3), 1653 (1), 1655 (4)
- \* *Taeniophyla unio* (OBERTHÜR, 1880) – 277 (1), 820 (1), 1465 (5)
- Thinopteryx crocoptera* (KOLLAR, 1844) – 319 (1), 857 (1), 942 (3), 962 (1), 1408 (1), 1417 (2), 1446 (2)
- \* *Wilemania nitobei* (NITOBE, 1907) – 1025 (1), 1030 (9), 1034 (9), 1038 (4), 1050 (3), 1055 (2), 1060 (1), 1641 (10), 1642 (1), 1649 (12), 1655 (8), 1706 (2), 1707 (1), 1886 (3)
- Xandrames dholaria* MOORE, 1868 – 351 (1), 360 (1), 663 (2), 762 (1), 850 (5), 857 (3), 861 (1), 1455 (1), 1474 (2)
- Xerodes albonotaria* (BREMER, 1864) – 1386 (1), 1396 (1), 1404 (1), 1419 (2), 1427 (2), 1432 (1), 1433 (1), 1437 (1), 1439 (3), 1449 (1), 1451 (1), 1455 (5), 1470 (1), 1472 (1), 1680 (1), 1684 (1), 1686 (9), 1690 (1)
- Xerodes rufescentaria* (MOTSCHULSKY, 1861) – 266 (1), 351 (1), 365 (3), 778 (2), 780 (2), 783 (3), 813 (1), 829 (2), 870 (1), 916 (3), 918 (1), 923 (6), 933 (4), 939 (11), 942 (3), 945 (1), 948 (3), 958 (1), 962 (5), 1379 (1), 1386 (3), 1388 (6), 1398 (1), 1405 (2), 1411 (1), 1419 (2), 1432 (1), 1433 (2), 1437 (1), 1451 (1), 1455 (18), 1472 (1), 1670 (1), 1677 (2), 1680 (1), 1686 (3), 1690 (3), 1692 (1)
- Zanclidia testacea* (BUTLER, 1881) – 783 (9), 793 (1), 818 (9), 821 (1)

## Geometrinae

- Agathia carissima* BUTLER, 1878 – 923 (1), 1417 (1), 1444 (3)  
*Chlorissa amphitritaria* (OBERTHÜR, 1879) – 1388 (1), 1411 (1)  
 \* *Chlorissa anadema* (PROUT, 1930) – 351 (1)  
 \* *Chlorissa macrotyro* INOUE, 1954 – 934 (1), 939 (1), 1388 (2), 1404 (1), 1411 (1), 1417 (1)  
*Chlorissa oblitterata* (WALKER, 1863) – 322 (1), 1470 (1)  
*Comibaena delicator* (WARREN, 1897) – 315 (3), 319 (2), 322 (1), 325 (4), 411 (2), 419 (1),  
 542 (1), 550 (1), 663 (3), 705 (1), 720 (1), 783 (1), 818 (1), 829 (1), 850 (2), 859 (1),  
 861 (1), 865 (2), 894 (4), 1449 (2), 1451 (1), 1454 (1), 1455 (3), 1470 (2), 1472 (1),  
 1607 (3), 1608 (1), 1610 (2)  
*Comibaena ingrata* (WILEMAN, 1911) – 278 (1)  
 \* *Comibaena subdelicata* INOUE, 1986 – 1472 (1)  
*Dindica virescens* (BUTLER, 1878) – 351 (1), 373 (1), 1474 (1), 1476 (1)  
*Geometra dieckmanni* GRAESER, 1889 – 962 (1), 1454 (1), 1463 (1), 1465 (7), 1474 (1),  
 1476 (1), 1607 (1), 1736 (1)  
*Geometra glaucaria* MÉNÉTRIÉS, 1859 – 290 (1), 783 (5), 793 (1)  
*Geometra papilionaria* (LINNAEUS, 1758) – 278 (1), 285 (19), 294 (1), 360 (1), 373 (4), 379 (4)  
*Geometra ussuriensis* (SAUBER, 1915) – 793 (1)  
*Geometra valida* FELDER et ROGENHOFER, 1875 – 783 (2), 793 (2)  
*Hemistola tenulilinea* (ALPHÉRAKY, 1897) – 383 (1)  
*Hemistola zimmermanni* (HEDEMANN, 1879) – 277 (1)  
*Hemitheia aestivaria* (HÜBNER, 1799) – 276 (1), 320 (1), 783 (1), 1433 (1), 1451 (3), 1454  
 (1), 1455 (2), 1470 (1), 1472 (1)  
*Hemitheia marina* (BUTLER, 1878) – 322 (2)  
 \* *Hemitheia tritonaria* WALKER, 1863 – 325 (1), 870 (3), 962 (1), 1610 (1), 1611 (1), 1633 (1)  
*Idiochlora ussuriaria* (BREMER, 1864) – 865 (1), 1455 (1)  
 \* *Iotaphora admirabilis* (OBERTHÜR, 1883) – 793 (1)  
*Jodis lactearia* (LINNAEUS, 1758) – 319 (1), 325 (2), 894 (2), 923 (1), 948 (4), 962 (1), 1396  
 (1), 1404 (2), 1411 (1), 1419 (1), 1427 (2), 1449 (1), 1455 (2), 1692 (1)  
*Maxates grandificaria* (GRAESER, 1890) – 783 (1)  
 \* *Maxates illiturata* (WALKER, 1863) – 793 (1)  
 \* *Maxates protrusa* (BUTLER, 1878) – 783 (2)  
*Neohipparchus vallata* (BUTLER, 1878) – 260 (1), 322 (1), 325 (1), 894 (2), 1455 (1)  
*Pachista superans* (BUTLER, 1878) – 783 (1)  
 \* *Pingasa aigneri* PROUT, 1930 – 1463 (1)  
*Pingasa pseudoterpnaria* (GUENÉE, 1858) – 778 (1)  
*Timandrophora enervata* INOUE, 1944 – 850 (1), 890 (1)  
*Tanaorhinus reciprocata* (WALKER, 1861) – 1607 (1), 1709 (2)  
*Thetidia albocostaria* (BREMER, 1864) – 756 (1), 818 (1)

## DISCUSSION

## Species new to North Korea

The high number of the species recorded as new for the fauna of northern part of the Korean Peninsula reflects that the available material from the northern part for the authors of the KIM catalogue was limited and scanty. Species which are common and widely distributed in the southern part, often lack any northern record (*Aethalura ignobilis*, *Descoreba simplex*, *Ectropis obliqua*, *Erannis golda*, etc.). For others known only by a single or a few northern records in our list are represented by more data (e.g. *Geometra dieckmani*, *Hemitea aestivaria*, *Jodis lactearia*, *Neohipparchus vallata*, etc.).

## Problematic identities

In the case of *Cabera purus* we recognized a phenotype, which did not correspond with any of the white *Cabera* images documented by KIM *et al.* (2001: figs 34–37), as it has two forewing dorsal surface transverse lines (in *purus* there are three), and there are no scales with brown pigments scattered in the wing surfaces, therefore the wing surfaces are pure white (in *purus* the wing surfaces have brownish tint). This phenotype was already indicated by a previous worker as “*Cabera* not identified”.

In the case of *Macaria liturata* we are of the opinion that this taxon occurs only in the southern part of the peninsula, whilst the other regions are inhabited by the taxon described as *Macaria liturata* var. *pressaria* CHRISTOPH, 1893 (syntype(s), type locality: “Vilui, Albasin. Amur sept.” = river Vilui, fortress Albasin, eastern Amur), considered as *liturata* subspecies by SCOBLE (1999: 568). The *pressaria* phenotype is somewhat darker, with more prominent median transverse line, and more ochre in the forewing apex compared to *fuscaria* (see INOUE *et al.* 1982: plate 85, figs 14–20). Further studies are necessary to clarify the taxonomic status of these phenotypes.

## A species new to the Korean Peninsula:

*Selenia dentaria* (FABRICIUS, 1775)

(Figs 5–6)

*Phalaena dentaria* FABRICIUS, 1775: 623.

*Selenia bilunaria* ESPER, [1801]: 73; PROUT 1915: 324, Taf. 16a, fig “bilunaria”; WEHRLI 1940: 326; FORSTER & WOHLFAHRT 1973: 212, pl. 19, figs 20–21.

*Selenia dentaria* (FABRICIUS, 1775): VOJNITS 1980: 110, fig. 101.

*Diagnosis* – Forewing length measured from the base of costa to wing apex 17–21 mm (n = 3), the dorsal wing ground colour is warm ochre; whilst it is pale yellow in *S. sordiararia* LEECH, 1897 or pinkish brown in *S. tetralunaria* (HUFNAGEL, 1767) (see the key below).

*Material* – Samjiyon, 1800 m, Prov. Ryanggang, 4.VI.1985 (2 males); ditto, 5.VI. (1 male).

*Remarks* – The species is known to be distributed from Europe (British Isles) to the northern part of Asia, Far East and the Amur region and Kamchatka (PROUT 1915, WEHRLI 1940, VOJNITS 1980), but not recorded from Japan (INOUE *et al.* 1982). In Korea this is the third *Selenia* species recorded, and easy to recognize (see above). Distribution of *S. sordiararia* is restricted to the eastern part of temperate Asia, whilst *S. tetralunaria* has a somewhat wider, but principally similar range in Eurasia as that of *S. dentaria* recorded here first for the fauna of Korea.

### Key to the species of *Selenia* HÜBNER, 1823 recorded in the Korean Peninsula

- 1 Wing dorsal surface pale yellow with transverse lines and pattern, forewing apex especially extended and slightly darker than submedian area; ventral hindwing basal area light, postbasal regions with conspicuous spot in tornal and anal area (Figs 1–2)  
*S. sordiararia* LEECH, 1897
- Wing dorsal surface darker ochre or pinkish brown with transverse bands, forewing apex less acute but conspicuously darker than submedian area; ventral hindwing basal area yellow, no spot in tornal and anal area 2
- 2 Wings dark submedian and light postmedian areas contrasting in coloration, hindwing with large postmedian spot in cell Cu1-Cu2, median band undulated (Figs 3–4) *S. tetralunaria* (HUFNAGEL, 1767)
- Wings submedian and postmedian area not contrasting in coloration, forewing with well visible brown straight medial band, no hindwing postmedian spot (Figs 5–6) *S. dentaria* (FABRICIUS, 1775)

\*

*Acknowledgements* – This work was carried out within the framework of a joint project between the National Institute of Biological Resources (Incheon, SK) and the Hungarian Natural History Museum (Budapest, Hungary).



## REFERENCES

- ESPER, E. J. [1801]: *Die Schmetterlinge in Abbildungen nach der Natur mit Beschreibungen. Theil V. Die Spannerphalenen. Heft 3.* – T. O. Weigel, Leipzig, pp. 65–88.
- FABRICIUS, J. K. 1775: *Systema Entomologiae, sistens insectorum classes, ordines, genera, species, adiectis synonymis, locis, descriptionibus, observationibus.* – Officina Libraria Kortii, Flensburgi et Lipsiae, pp. xxxii + 832
- FORSTER, W. & WOHLFAHRT, TH. 1981: *Die Schmetterlinge Mitteleuropas. Band V. Spanner (Geometridae).* – Franckh'sche Verlagshandlung, Stuttgart, 312 pp, 26 pls, 327 figs.
- INOUE, H., SUGI, S., KUROKO, H., MORIUTI, S. & KAWABE, A. 1982: *Moths of Japan.* – Kodansha, Tokyo. Volume 1: Text, 966 pp, Volume 2: Plates and Synonymic Catalogue, 522 pp.
- KIM, S. S., BELJAEV, E. A. & OH, S. H. 2001: Illustrated Catalogue of Geometridae in Korea (Lepidoptera: Geometridae, Ennominae). – In: PARK, K. T. (ed.): *Insects of Korea, series 8.* Korea Research Institute of Bioscience and Biotechnology & Center for Insect Systematics, Korea, 278 pp.
- PARK, K. T., RONKAY, L., PRYBYLOWICZ, L., KUN, A. & PEREGOVITS, L. 2001: Moths of Korea (Lepidoptera, Heterocera, Macrolepidoptera- parts). – In: PARK, K. T. (ed.): *Insects of Korea, series 7.* Korea Research Institute of Bioscience and Biotechnology & Center for Insect Systematics, Korea, 441 pp.
- PROUT, B. L. 1912–1916: Die Gross-Schmetterlinge des paläarktischen Faunengebietes. 4. Band: Die spannerartigen Nachtfalter. – In: SEITZ, A. (ed.): *Die Gross-Schmetterlinge der Erde. Eine systematische Bearbeitung der bis jetzt bekannten Gross-Schmetterlinge.* Alfred Kernen Verlag, Stuttgart, [iii] + v + 479 pp.
- SCOBLE, M. J. (ed.) 1999: *Geometrid Moths of the World. A Catalogue (Lepidoptera, Geometridae).* – CSIRO Publishing, Collingwood, Australia, xxv + 1018 + index (129) pp.
- VOJNITS, A. 1980: Araszolólepkék I. – Geometridae I. – In: *Magyarország Állatvilága (Fauna Hungariae), 16, 11.* Akadémiai Kiadó, Budapest, 157 pp.
- VOJNITS, A., PARK, K. T. & SHIN, Y. H. 1994: New Faunistic Data on the Family Geometridae (Lepidoptera) of the Korean Peninsula. – *Korean Journal of Applied Entomology* 33: 16–18.
- WEHRLI, E. 1939–1941: 6. Subfamilie: Geometrinae. – In: SEITZ, A. (ed.): *Die Gross-Schmetterlinge der Erde. Eine systematische Bearbeitung der bis jetzt bekannten Gross-Schmetterlinge. Supplementband 4.* Alfred Kernen Verlag, Stuttgart, pp 254–432.