

A Preliminary List of Stathmopodidae, Batrachedridae, Blastodacnidae and Cosmopterigidae (Lepidoptera: Gelechiidae) of the Korean Peninsula

韓國産 감꼭지나방科, Batrachedridae, Blastodacnidae,
창날개빨나방科(나비目)의 분류학적 整理

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ABSTRACT An annotated list of 33 species belonging to the families Stathmopodidae (7 including 2 unrecorded species), Batrachedridae (a new species: *Batrachedra koreana* sp. n.), Blastodacnidae (3 including an unrecorded species), and Cosmopterigidae (22 species) from the Korean peninsula is given. For Cosmopterigidae, continuing from the previous article (Park, 1994), 2 species (*Cosmopterix bichrome-lla* sp. n. and *Labdia antenella* sp. n.) are described as new and 2 species are newly added to the fauna, and all available informations on host plant of larva with a list of all known species in Korea are provided.

KEY WORDS Lepidoptera, Stathmopodidae, Batrachedridae, Blastodacnidae, Cosmopterigidae, systematics, Korea

초 록 최근 발표된(朴 1994) 창날개빨나방科와 속미이빨나방科에 이어 韓國産 감꼭지나방科 7種(2未記錄種), Batrachedridae 1種(新種記載), Blastodacnidae 3種(1未記錄種)을 정리하였으며, 창날개빨나방科 2種을 新種으로 記載함과 동시에 2未記錄種을 정리발표한다. 기발표된 種들에 대해서는 전체목록을 위해 幼蟲의 寄主에 관한 제정보를 추가하여 삽입하였다. 처음 소개되는 상기 2개科의 우리말 이름은 아직 東西學者들간의 분류체계에 관한 異見이 크므로 새로운 분류체계가 정립되는데로 추후 命名키로 한다.

검색어 나비目, 감꼭지나방科, 창날개빨나방科, 분류, 韓國

This is the first list of species of the families Stathmopodidae, Batrachedridae, Blastodacnidae and Cosmopterigidae for the Korean peninsula as a whole. Only few faunistic data were previously presented in the "Illustrated Flora & Fauna of Korea" (Park 1983a) and "Insecta Koreana" (Park 1983b), and some other recent additional records (Park 1986, 1994) have been represented. On the other hand, the fauna of adjacent territories of Russia has been better studied with more than 150 species of the families in the southern part of Primorye region (Sinev 1979, 1981, 1985a, 1985b, 1986, 1988a,

1988b, 1988c, 1991, 1993a, 1993b)

The systematic positions of the families included in this article have not been well clarified, and the general status of them is as following:

Family Stathmopodidae. The systematic position of the family Stathmopodidae has been confused, placing in different ranks by previous different authors: Common (1970), Bradely (1972), Kuznetsov & Stekol'nikov (1984), Minet (1990) and Sinev (1992) ranked it at the level of family, on the other hand Nielson & Common (1991) and Hodges (in press) treated it as a subfamily of Oecophoridae.

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Five species have been known from the southern part of the Korean peninsula (S. Korea) and two additional species are added to the fauna from N. Korea.

Family Batrachedridae. The family was treated as a subfamily of Mompidae (Bradely 1972) or of Coleophoridae (Hodges 1978), but it has generally been placed at the rank of family by recent authors (Kuznetsov & Stekol'nikov 1984, Minet 1990, Nielson & Common 1991 and Sinev 1992). The family is known for the first time from Korea.

Family Blastodacnidae. The family has been considered as a subfamily of Coleophoridae (Hodges 1978) of Agonoxenidae (Kuznetsov & Stekol'nikov 1984), and also some recent authors (Minet 1990, Nielson & Common 1991, Sinev 1992) treated it as a family. On the other hand, however, Hodges (in press) suggested that the family name is nomenclaturally invalid and it is a synonym of Parametriotinae Capuse, Elachistidae. In the previous article, the second author (1994) erroneously placed two species; *Blastodacna pyrigalla* (Yang) and *Trachydora ussuriella* Sinev, in the family Mompidae, but they should be included in the family Blastodacnidae for the time being, according to the recently revised systematic position for the family.

Family Cosmopterigidae. Most of recent authors (Kuznetsov & Stekol'nikov 1984, Minet 1990, Nielson & Common 1991, Sinev 1992) considered this taxa to be a family rank, even some previous authors (Bradely 1972, Zimmerman 1978) treated it as a subfamily. The family is divided into two subfamilies; Antequerinae Hodges, 1978 and Cosmopteriginae Heinemann, 1876. Recently the second author reviewed 18 species from the Korean peninsula. Here we add two newly reported species and describe two species as new, with a list of previously reported species.

All available information on host of larvae and their distributional ranges which have been known previously or surveyed recently by the authors, are provided. Materials examined in the present article were obtained by the field works of Korean collectors in South Korea during 1974~1990 (specimens are in the collection of Center for Insect Systematics <CIS>, Kangwon National University, and of Zoolo-

gical Institute of the Russian Academy of Sciences <ZIRAS>, Russia), and by the expeditions of Hungarian collectors to the North Korea in 1975-1985 (specimens are in the collections of Hungarian Museum of Natural History, Budapest). All types are tentatively deposited in ZIRAS. An asterisk (*) before the specific name means that species is new for the Korean peninsula.

Family Stathmopodidae (감꼭지나방과)

Stathmopoda auriferella (Walker)

열매꼭지나방

Gelechia auriferella Walker, 1864, List Specimens Lepid. Ins. Brit. Mus., 30: 1022

Stathmopoda divisa Walsingham, 1891, Trans. Ent. Soc. London: 121, tab. 6, fig. 61.

Stathmopoda ischnotis Meyrick, 1897, Proc. Linn. Soc. N. S. Wales, 22: 324.

Stathmopoda crocophanes Meyrick, 1897, Proc. Linn. Soc. N. S. Wales, 22: 324

Aeoloscelis theoris Meyrick, 1906, J. Bombay Nat. Hist. Soc., 17: 410

Stathmopoda tharsalea Meyrick, 1914, Ann. Transvaal Mus., 4: 199.

Stathmopoda adulatrix Meyrick, 1917, Exot. Microlepid., 2: 61

Stathmopoda cirrhaspis Meyrick, 1922, Exot. Microlepid., 3: 585.

Chrysoclista basiflavella Matsumura, 1931, 6000 Ill. Ins. Jap. Empire: 1087.

Material. S. Korea: 1♀, Suweon, GG, 11. VIII. 1980 (K. R. Choe); 1♂, Whacheon, GW, 2. VII. 1985 (K. T. Park) N Korea: 1♂, Mt. Kumgang-san, GW, 19. IX. 1980 (Forró & Tópal); 1♀, Mt. Myohyang-san, PN, 13. IX. 1980 (Forró & Tópal) Previous record. Gwangneung, GG, S. Korea (Park, 1983b).

Distribution. Korea (S., N.), Japan, Taiwan, China, Vietnam, Philippines, India, Pakistan, Israel, Africa, Australia.

Biology. Larva feeds on dead leaves, mainly generative parts of various kinds of plants: *Citrus*, *Zizyphus*, *Tristania*, *Sorghum*, *Ceratonia*, *Helianthus*, and etc.

**Stathmopoda flavescens* Kuznetsov

노랑꼭지나방(신칭)

Stathmopoda flavescens Kuznetsov, 1984, Proc. Zool. Inst. Acad. Sci. USSR, **122**: 77, figs. 1, 2

Material. N. Korea: 1♀, Mt. Kumgang-san, GW, 23. VII. 1982 (Forró & Tópal).

Distribution. Korea (N.), Russian Far East (Primorye).

Biology. Unknown.

***Stathmopoda haematosema* Meyrick**

털다리꼭지나방

Stathmopoda haematosema Meyrick, 1933, Exot. Microlepid., **4**: 431.

Material. S. Korea: 1♀, Suweon, GG, 20. VII. 1976 (K. B. Uhm).

Distribution. Korea (S.), Japan.

Biology. Unknown

***Stathmopoda masinissa* Meyrick**

감꼭지나방

Stathmopoda masinissa Meyrick, 1906, J. Bombay Nat. Hist. Soc., **17**: 410.

Kakivoria flavofasciata Nagano, 1916, Konch. Sek., **20**: 136, tab. 4, figs. 1-18.

Stathmopoda albidorsis Meyrick, 1931, Bull. Sect. Sci. Acad. Roum., **14**: 75.

Localities. S. Korea: Milyang, GN; Kimhae, GN (Park, 1983b).

Distribution. Korea (S.), Japan, Taiwan, China.

Biology. Larva feeds on the flower pods and fruits of *Diospyros kaki* Thunberg (Ebenaceae), and is one of serious pest on persmon in Korea.

***Stathmopoda optiscaspis* Meyrick**

이끼꼭지나방

Stathmopoda optiscaspis Meyrick, 1931, Exot. Microlepid., **4**: 175.

Material. S. Korea: 1♀, Mt. Jiri-san, JN, 17. VII. 1976 (Y. Y. Ha); 1♀, Mt. Myungji-san, GG, 29. VI. 1983 (K. T. Park). N. Korea: 1♂, Mt. Kumgang-san, GW, 25. VII. 1982 (Forró & Ronkay). Previous record. Chuncheon, GW, S. Korea (Park, 1983b).

Distribution. Korea, Japan, China, Russian Far East (Primorye).

Biology. The larva feeds on *Prunus serrulata* var. *spontanea* (Max.) Wils. (Rosaceae, Prunoideae).

****Stathmopoda stimolata* Meyrick**

애기꼭지나방(신칭)

Stathmopoda stimolata Meyrick, 1913, Exot. Microlepid., **1**: 84.

Material. N. Korea: 1♂, 2♀, Mt. Kumgang-san, GW, 24-25. VII. 1982 (Forró & Ronkay).

Distribution. Korea (N.), China, India, Sri Lanka.

Biology. Unknown.

***Atkinsonia ignipicta* (Butler)**

붉은꼬마꼭지나방

Eretmocera ignipicta Butler, 1881, Trans. Ent. Soc. London: 593.

Material. S. Korea: 1♀, Gwangneung, GG, 3. IX. 1982 (J. D. Park)

Distribution. Korea (S.), Japan, China, Vietnam.

Biology. Larva feeds on scale-insects in the heads of *Sasa* (Poaceae, Bambusoideae).

Family Batrachedridae

***Batrachedra koreana* Sinev et Park, sp. nov.**

백두빨나방(신칭)

Very similar externally with *B. albicapitella* Sin. from Russian Far East, but head and thorax yellowish ochreous, not greyish white. In male genitalia it differs from the latter by more straight and narrow uncus, very short valvella, and valvae without distinct ventrocaudal angle.

Wing expanse 11.5 mm Head pale ochreous yellow; frons whitish, shining. Antennae brownish ochreous, somewhat lighter at base. Labial palpi brownish ochreous Thorax and tegulae ochreous yellow. Forewings yellowish with purely yellow apex, and with slight brownish-fuscous dusting which is more expressed through the margins of the wing, especially at the distal third and at the base of costa. All pattern consists of a small blackish-fuscous dot at the 3/4 near the end of discal cell and a very short blackish longitudinal dash at the 1/3 in anal fold. Cilia greyish fuscous, only a little part at the apex of wing yellow. Hindwings and cilia more or less unicolour, pale fuscous.

Male genitalia (Fig. 1). Uncus about equal length of tegumen, slightly arched and shortly pointed at apex. Tegumen large, its latero ventral processes broad. Gnathos with very narrow sclerotized lateral arms and flattened medial part bearing relatively long spines. Valvae slightly broadened before apex, length about four times as much as width; ventrocaudal angle smoothed, sacculus not free Valvella

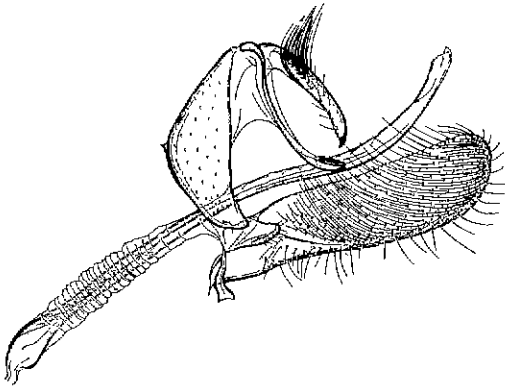


Fig. 1. Male genitalia of *Batrachedra koreana* sp. n.

small, shortly digitate, with minute hairs at apex. Juxta indistinct. Aedeagus slender, somewhat S-shape, with length twice as much as width; comutus absent.

Holotype. ♂ (gen. prep. 0126/Sinev), with labels: "Korea, Mt. Pektu-san before Sam-zi-yon hotel, lake shore, 20. VII. 1977", and "No. 383, light-trap, Dely & Draskovits"; paratype, ♂ (gen. prep. 0107/Sinev), same data for the holotype.

Biology. Unknown.

Diagnosis. This is a new report for the species of the family Batrachedridae

Family Blastodacnidae

***Blastodacna pyrigalla* (Yang)**

배혹빨나방

Larva is a gall maker on the twigs of *Pyrus serotina* Rehder, *Prunus persica* (L.) Batsch (Rosaceae, Prunoideae), and *Diospyros kaki* Thunberg (Ebenaceae).

***Trachydora ussuriella* Sinev**

우수리속먹이빨나방

Larva is a twig borer on *Lespedeza bicolor* Turcz. (Papilionaceae).

***Microcolona aurantiella* Sinev**

산속먹이빨나방(신칭)

Microcolona aurantiella Sinev. 1988, Vestn. Zool., 5: 19-21, fig. 2.

Material. N. Korea: 1 ♂, Mt. Myohyang-san, NP, 18. VII. 1982 (Forró & Ronkay).

Distribution. Korea (N.), Russian Far East (Pri-

morye).

Biology. Unknown.

Family Cosmopterigidae 창날개빨나방과

Subfamily Antequerinae

***Pancalia hexachrysa* (Meyrick)**

은빛줄창날개빨나방

***Pancallia isschikii* Mats.**

흰더듬이창날개빨나방

Russian Far East (Amur, Primorye)-subsp. *amurella* Gaedike; Japan-subsp. *isschikii* Matsumura; Sakhalin-subsp. *sachalinella* Sinev.

***Pancallia latreillella* Curtis.**

산골창날개빨나방

Larva mines in the petioles at the early stage and later in the root-stocks of *Viola canina* and *V. hirta* (Violaceae).

Subfamily Cosmopteriginae

***Cosmopterix attenuatella* (Walker)**

들창날개빨나방(신칭)

Gelechia attenuatella Walker. 1864. List Specimens Lepid. Ins. Coll. Brit Mus., 30: 1019.

Cosmopterix flavofasciata Wollaston, 1879, Ann. & Mag. Nat. Hist., Ser. 5, 3: 438.

Cosmopterix mimetis Meyrick, 1897, Proc. Linn. Soc. N. S. Wales, 22: 339.

Cosmopterix melanarches Meyrick, 1929, Trans. Ent. Soc. London, 76: 497.

Cosmopterix antillia Forbes, 1931, J. Dept. Agric. Porto Rico, 4: 356.

Material. N. Korea: 1 ♂, Kaesong, 29. VII. 1982 (Forró & Ronkay).

Distribution. West India, U.S.A (Florida, Texas), Guyana, Seychelles, Borneo, Fiji, New Guinea, St. Helena (*flavofasciata* Woll.), Marquesas Archipel, Vietnam (*melanarches* Meyr.), Australia (*mimetis* Meyr.).

Remarks. All records from South Europe, North Africa, Caucasus and Central Asia belong to *Cosmopterix crassicerivella* Chrét.

Biology. The larva is a leaf miner on flat-sedges, *Cyperus* spp. (Cyperaceae).

***Cosmopterix rhynchognathosella* Sinev**

무늬창날개빨나방(신칭)

Cosmopterix rhynchognathosella Sinev, 1985,

Proc. Zool. Inst. Acad. Sci. USSR, **134**: 86-88, figs. 8, 25, 26.

Material. N. Korea: 1♀, Mt. Kumgang-san, near Ondzong, GW, 6. VIII. 1975 (Papp & Vojnits)

Distribution. Korea (N.), Vietnam, Russian Far East (Primorye).

Biology. Unknown

***Cosmopterix bichromella* Sinev et Park, sp. nov.** 창날개빨나방(신칭)

Rather similar superficially with *C. gracilis* Sinev, but forewings more dark, chocolate. It differs from the majority of other *Cosmopterix*-species by the narrow valvae without pronounced dorsocaudal and ventrocaudal angles.

Wing expanse 10 mm Head dark fuscous on vertex, with silvery-white longitudinal lines above the eyes and with same narrow medial streak. Antennae fuscous, in distal half with light yellowish-white annulation: four apical joints light, next five fuscous, then alternate each other, and next 6~7 joints with light basally and dark at tips; basal half of antennae without light annulation, but with longitudinal white line anteriorly Tegulae dark fuscous in the middle, with silvery-white scales edged on outer and inner margins. Mesonotum dark fuscous with narrow white medial streak. Forewings chocolate, with rather broad medial fascia and rounded subapical orange-yellow spot. Basal dark area with three narrow silvery-white streaks: one subcostal and two parapical. Subcostal streak runs obliquely from the base of wing and blindly terminates at 2/3 of basal area; parapical streaks commonly originating from beginning of anal plica, then run through both sides of plica and terminate together at the tip of the projection of medial fascia. Inner silvery fascia separates into two approximately equal spots; by the projection of medial fascia anterior spot large, blackish-fuscous on the margin turned to the medial fascia, and posterior one minute, fuscous. White narrow streak lies on costa from inner silvery fascia to 1/2 of basal dark area. Medial fascia with small groups of fuscous scales both ends of the straight outer border. Outer silvery fascia continuous, transforms into distinct costal and indistinct dorsal white spots on cilia. Apical dark area obviously paler than basal one, greyish fuscous; all its central part opposite outer silvery fas-

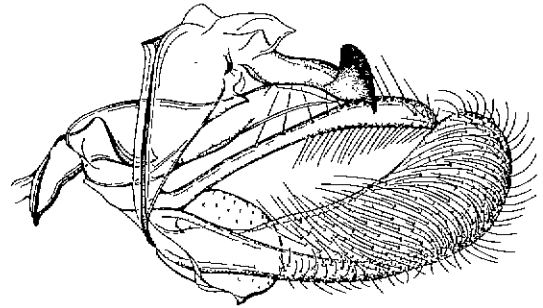


Fig. 2. Male genitalia of *Cosmopterix bichromella* sp. n.

cia occupied by large oval orange-yellow spot. Bright snow-white line runs along termen from the margin of subapical spot to the extremity of wing. Cilia pale greyish fuscous, somewhat darker on costa. Hindwings whitish grey at the base, gradually darker toward apex; cilia pale grey.

Male genitalia (Fig. 2). Right arm of gnathos massive, S-shape, with large dorsal dilation before apex and a small beaklike projection at apex; left arm strongly reduced. Valvae narrow at base, somewhat gently arched, slightly broadened distally with rounded apex; both dorsocaudal and ventrocaudal angles absent. Valvellae symmetrical, very long and thin, slightly broadened in apical third with hairs along lateral margin. Aedeagus rather narrow, pear-shape, apically pointed; its length (without caecum) less than 2/3 length of valvae. Caecum shorter than 1/2 length of aedeagus properly.

Holotype. ♂ (gen. prep. 0127/Sinev), with the label: "Mt. Hanra-san, Isl. Jeju, S. Korea, 24. V 1987, K. T. Park".

Biology. Unknown

***Labdia antennella* Sinev et Park, sp. nov.**

그늘창날개빨나방(신칭)

Rather similar to *L. niphosticta* Meyrick in general coloration, but dull forewings and distinct thickness of black scales at the base of male antennae are characteristic.

Wing expanse 10 mm. Head yellowish white on the frons and fuscous on the occiput and hind part of vertex. Antennae yellowish white, with slight bend (male) at the base of flagellum covered by soothing black rumpling scales ventrally; basal joint bears api-

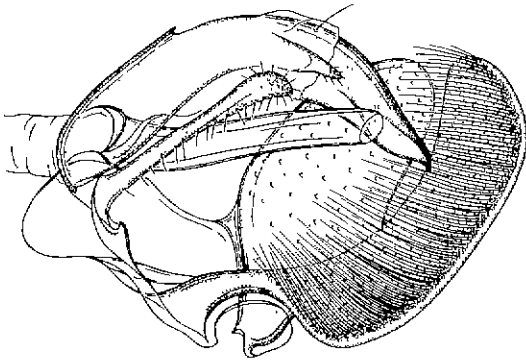


Fig. 3. Male genitalia of *Labdia antennella* sp. n.

cal tuft of long fuscous scales. Labial palpi yellowish white; 3rd joint dark fuscous, except base. Thorax blackish fuscous; tegulae somewhat lighter, shining. Forewing dull blackish fuscous with clearly white markings: narrow basal transverse fascia between 1/4 and 1/3, and two small triangular spots immediately beyond 1/2 of costa and near 2/3 of termen. Cilia blackish fuscous with small white piece at apex of wing. Hindwings dark fuscous; cilia somewhat lighter.

Male genitalia (Fig. 3). Right arm of gnathos massive, more or less straight and uniformly narrowing to the pointed and sclerotized apex; left arm shortly digitate, with minute hairs apically. Tegumen with large excavation anteriorly. Valvae long, consist of short and narrow basal part (pedicellum), and archly curved and long dense hairy distal part (cucullus); cucullus about three times as much as pedicellum by length, and almost four times as much as the latter by width. Left valvella slender, digitate, somewhat thickened distally, with short hairs at apex and on ventral edge; right valvella absent. Aedeagus narrowly cylindrical, slightly broadened at the base; caecum small, poorly differentiated

Holotype. ♂ (gen. prep 0125/Sinev), with the label: "Chuncheon, S. Korea, 20. VII 1987, K. T. Park et U. Park".

Biology. Unknown.

***Cosmopterix fulminella* Stringer**

대창날개빨나방

Larva is a leaf miner feeding on *Arundinaria pygmaea* (Miq.) Asch. et Graebn. and *A. chino*, and it may be also on *Sasa* sp. (Poaceae, Bambusoi-

deae).

***Cosmopterix gracilis* Sinev**

섬대창날개빨나방

Larva is a leaf miner on *Arundinella hirta* (Thunb.) Tanaka (Poaceae).

***Cosmopterix infundibulella* Sinev**

반도창날개빨나방

***Cosmopterix kurokoi* Sinev**

흑자창날개빨나방

***Cosmopterix litengiella* (Zeller)**

갈대창날개빨나방

Larva is a leaf miner on *Phragmites communis* Trin. and *Ph. longivalvis* Steudel. (Poaceae)

***Cosmopterix schmidtella* (Frey)**

나물창날개빨나방

Larva is a leaf miner on *Vicia sepium* L., *V. pisi-formis*, *V. unijuga* A. Br., *V. amoena* Fisch., *Lathyrus vernus*, *L. niger*, *L. macrorrhizus* (= *Orobis tuberosus*), *L. davidii* Hance (Papilionaceae).

***Cosmopterix victor* (Stringer)**

이대창날개빨나방

Larva is a leaf miner on *Sasa purpurascens*, *S. japonica* (S. et Z.), *Arundinaria pygmaea* (Miq.) Asch et Graebn., and *Phyllostachys bambusoides* S. et Z. (Poaceae, Bambusoideae).

***Cosmopterix zieglereila* (Hbn.)**

섬모시창날개빨나방

Larva is a leaf miner on *Humulus lupulus* L., *H. sp.*, *H. japonicus* S. et Z. (Moraceae), and *Boehmeria nippononivea* Koidz (Urticaceae).

***Anatrachyntis japonica* Kuroko**

세모창날개빨나방

Larva feeds on the damaged fruits of persimmon, damaged cotton-bolls and bags of bagworm.

***Labdia bicolorella* (Snellen), comb. n.**

멋장이창날개빨나방

***Labdia issikii* Kuroko**

낙엽창날개빨나방

***Labdia niphosticta* (Meyrick)**

은줄창날개빨나방

***Labdia semicoccinea* (Stainton)**

세미창날개빨나방

Larva probably feeds on vegetable refuse

***Ressia quercidentella* Sinev**

흰점박이창날개빨나방

Larva probably associates with *Quercus dentata*

Thunb. (Fagaceae).

***Limnaecia phragmitella* Stainton**

큰창날개뿔나방

Larva feeds on the seed-heads of *Typha latifolia* L., *T. Angustifolia*, and *T. orientalis* Presl. (Typhaceae).

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