

***Grapholita (Aspila) andabatana* (WOLFF, 1957) (Lepidoptera:  
Tortricidae) - a new species for the Polish fauna\***

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**ABSTRACT.** *Grapholita andabatana* (WOLFF, 1957) is reported as a new species to Polish fauna. The species was found in the southern part of Poland in the Pieniny Mts.

**KEY WORDS:** Lepidoptera, Tortricidae, *Grapholita andabatana*, male genitalia, faunistics, Poland.

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In Central Europe the subtribus Grapholitina is represented by 89 species (RAZOWSKI 2001). Only 66 species of this group were reported from Poland with two recently recorded species: *Grapholita lobarzewski* (NOWICKI 1960) (KOPEĆ & PRZYBYŁOWICZ 2001) and *Pammene ignorata* V.I. KUZNETZOV, 1968 (KUBASIK 2002). The taxonomic constitution of tribus Grapholitini is not finally established and genus *Grapholita* TREITSCHKE, 1829 was frequently included into the genus *Cydia* HÜBNER [1825], as it was made in the check-list of Polish Lepidoptera (RAZOWSKI 2000).

*Grapholita andabatana* was described by WOLFF (1957) from Bornholm, Denmark and included into the genus *Laspeyresia*. All specimens collected by WOLFF (1957) were attracted to light in a locality close to the shore, at a steep rocky slope of an island, grown with various trees and bushes. Larvae of this species feed on fruit of *Sorbus* sp. (KUZNETZOV 1978). In Austria it was bred from *S. aucuparia* (P. HUEMER, personal information). Trees of *S. aucuparia* grow in all localities where the species was caught in the Pieniny Mts., but an attempt to breed it from their fruits has failed. Till now in Europe *Grapholita*

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*andabatana* has been known only from Austria, Denmark, France, Italy and Russia (AARVIK 2004). RAZOWSKI (2003) regarded it a West Palaearctic species. However, the species is probably much more widely distributed, as it is reported from Japan (MIZUKOSHI 2006) where it was caught in pheromone traps used for monitoring *Grapholita molesta* (BUSCK, 1916).

Externally (Fig. 1) *G. andabatana* is very similar to several other species of the genus *Grapholita*, with *G. tenebrosana* (DUPONCHEL, 1842) as the most resembling species. Correct determination requires examination of genitalia. On the fig. 2 are shown in some details the male genitalia of the specimen caught at Macelowa Góra. Male and female genitalia are illustrated in original description (WOLFF 1957) and in RAZOWSKI (2003). Good drawings of male genitalia gives also KUZNETSOV (1978) and KOPEĆ and PRZYBYŁOWICZ (2001) give the key to species from the *molesta* group present and expected in Poland.

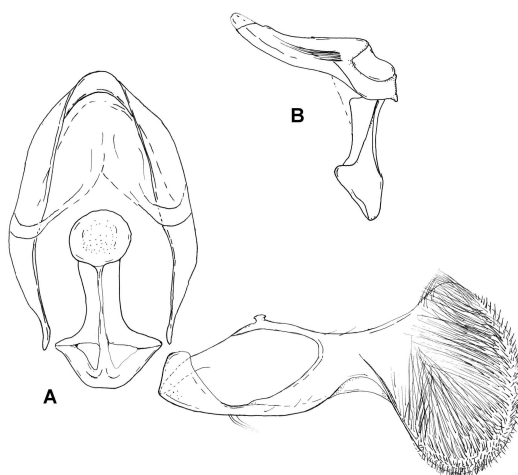
During the field research in the Polish part of the Pieniny Mts. three specimens of *Grapholita andabatana* (WOLFF, 1957) were caught to the light.

#### Material examined

- Macelowa Góra, UTM grid: DV57, alt. 550 m a.s.l., 13 VI 2002, 1 male, leg. W. KUBASIK.
- Czorsztyn Zamek, UTM grid: DV57, alt. 565 m a.s.l., 8 VII 2004, 1 male, leg. R. WĄSALA.
- Sromowce Niżne, UTM grid: DV57, alt. 480 m a.s.l., 26 VI 2006, 1 male, leg. W. KUBASIK.



**Fig. 1.** Male of *G. andabatana* collected at Macelowa Góra.



**Fig. 2.** *G. andabatana*: A - male genitalia (only one valva illustrated); B - lateral view of aedeagus.

#### REFERENCES

- AARVIK L.E. 2004. Fauna Europaea: Tortricidae. [in:] O. Karsholt & E.J. van Nieuwerkerken, (eds.) (2004) Fauna Europaea: Lepidoptera, Moths. Fauna Europaea version 1.1, <http://www.faunaeur.org>.
- HUEMER P., TARMANN G. 1993. Die Schmetterlinge Österreichs (Lepidoptera). Systematisches Verzeichnis mit Verbreitungsangaben für die einzelnen Bundesländer. - Veröff. Mus. Ferdinandeum, Innsbruck, Suppl. **5**: 1-224.
- KOMAI, F. 1999. A taxonomic revision of the genus *Grapholita* and allied genera (Lepidoptera: Tortricidae) in the Palearctic region. *Entomologica scandinavica* Supplement 226 pp.
- KARSHOLT O., RAZOWSKI J. 1996. The Lepidoptera of Europe, a distributional checklist, 380 pages, Apollo Books, Stenstrup, Denmark.
- LERAUT P.J.A. 1997. Liste systématique et synonymique des Lépidoptères de France, Belgique et Corse, 526 pages, supplément à Alexanor.
- MIZUKOSHI T. 2006. Non-target Species Caught by Synthetic Sex Pheromone Trap of Lepidopterous Pests on Apple Trees in Hokkaido. *Jpn. J. Appl. Entomol. Zool.* **50**: 231-239.
- WOLF N. L. 1957. *Laspeyresia andabatana* nov. spec. (Lepidoptera, Eucosmidae). *Entomologische Mitteilungen* **28**: 23-26.

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