

First Record of Phycita imperialella (Ragonot, 1887) from Western Europe (Pyralidae)

Authors: Scalercio, Stefano, Greco, Silvia, and Infusino, Marco

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FIRST RECORD OF *PHYCITA IMPERIALELLA* (RAGONOT, 1887) FROM WESTERN EUROPE (PYRALIDAE)

Additional key words: Phycitinae, Onosma echioides, Pollino National Park, Italy

Phycita imperialella (Ragonot 1887) is a species of Pyralidae, subfamily Phycitinae, tribe Phycitini. This species was moved several times across different genera. It was described as Nephopterix imperialella by Ragonot (1887), reported as Sciota imperialella in Fauna Europaea (Karsholt & Van Nieukerken 2015), as Bradyrrhoa imperialella in Budashkin & Savchuk (2010), and, finally, as Phycita imperialella in Leraut (2014). Perhaps the correct combination is that proposed by Budashkin & Savchuk (2010), and molecular analyses could be useful to assign this species to the correct genus. Few data are given for the distribution of this species. Within the original description, it was generically reported from Caucasus, Armenia and Siberia (Ragonot 1887). Successively, the range was extended to Greece and Macedonia (Klimesch 1968), Ukraine (Krim near Kurortne, Friedmar Graf, www.lepiforum.de; Crimea (Budashkin & Savchuk 2010)), and Turkey (Van province, East Turkey (Koçak & Kemal 2012)). To date, the chorotype of P. imperialella can be defined as Caucasian-East Mediterranean. Budashkin & Savchuk (2010) found caterpillars of P. imperialella feeding on both stems and flowers of Onosma polyphylla Ledeb. (Boraginaceae), from mid-June to mid-July. Adults were found from June to October, but more frequently in August, in xerophilous habitats.

In this paper we report the first record of *P. imperialella* from Italy, significantly expanding the range of this species westward. The collection site is situated in



FIG. 1. *Phycita imperialella*, male, Serra Ambruna (Italy), 24.VIII.2015, 29 mm, legit Scalercio S. & Infusino M.

the Pollino National Park on the southern slope of Serra Ambruna Mts., municipality of Saracena, southern Italy (latitude: 39.8234°; longitude: 16.0768°; altitude: 1,035 m). A specimen of *P. imperialella* were found in a clearing surrounded by a *Fagus sylvatica* L. forest with isolated trees and bushes of *Corylus avellana* L., *Fraxinus* spp., *Quercus ilex* L., *Pinus* spp. The shrubherbaceous layer is characterized by *Spartium junceum* L., *Hieracium* spp., *Dianthus* spp. and some Poaceae species. Geological substratum is calcareous with outcropping rocks. Moths have been sampled by a high brightness UV-LED strips-based light trap (400-315 nm, light angle 120°, 3,000 lumens), positioned at approximately 1.30 meters above the ground, switched on at dusk.

On the 24th of August 2015 we collected one male of *Phycita imperialella* (Fig. 1). The identification was easily carried out comparing the habitus of the specimen with available iconography (Leraut 2014). Wingspan is 29 mm, included within the known measurement range of this species (28–30 mm). The specimen was barcoded (BOLD sequence page: BIBSA855-15; GenBank accession: KU497408) and stored in the collection of the Unità di Ricerca per la Selvicoltura in Ambiente Mediterraneo (CREA-SAM).

The discovery of a new population of this species in the Pollino Massif confirms the biogeographic affinity between south-eastern Europe and southern Italy. In fact, this distribution pattern is shared by several xerothermophilous Lepidoptera species (Scalercio et al. 2014).

Onosma polyphylla, the food-plant indicated by Budashkin & Savchuk (2010), is absent in southern Italy where two subspecies of O. echioides (L.) L. are present (Peruzzi & Passalacqua 2008). The collection area is at the southern boundary range of the nominal subspecies of O. echioides, which is probably the food-plant of the Italian population of P. imperialella.

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STEFANO SCALERCIO°, SILVIA GRECO & MARCO INFUSINO Consiglio per la ricerca in agricoltura e l'analisi dell'economia agraria, Unità di Ricerca per la Selvicoltura in Ambiente Mediterraneo, Contrada Li Rocchi, I-87036 Rende, Cosenza, Italy. Corresponding author: S. Scalercio, Email: stefano.scalercio@entecra.it

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