

Tineoidea (Meessiidae, Tineidae) and Glyphipterigidae: Acrolepiinae from the Canary Islands, Spain (Insecta: Lepidoptera)

R. Gaedike & P. Falck

Abstract

Based on recent field work and examination of specimens of the families Meessiidae and Tineidae (Tineoidea) and the subfamily Acrolepiinae (Glyphipterigidae) we record the following three species as new to the Canary Islands: *Xystrologa grenadella* (Walsingham, 1897) (Meessiidae), *Nemapogon granella* (Linnaeus, 1758), and *Tinea translucens* Meyrick, 1917 (Tineidae). *Haplotinea insectella* (Fabricius, 1794) is deleted from the Canary Islands list. We also describe one hitherto undescribed species: *Neurothaumasia betancuriacola* Gaedike & Falck, sp. n.. For a further 31 species, hitherto known from the Canary Islands, we established first records for several islands. A checklist of the 50 taxa now known from the Canary Islands is presented, with indications of the sources of records. KEY WORDS: Insecta, Lepidoptera, Tineoidea, Meessiidae, Tineidae, Glyphipterigidae, Acrolepiinae, new species, new records, Canary Islands, Spain.

Tineoidea (Meessiidae, Tineidae) y Glyphipterigidae: Acrolepiinae de las Islas Canarias, España (Insecta: Lepidoptera)

Resumen

Sobre la base del reciente trabajo de campo y examen de los especímenes de las familias Meessiidae y Tineidae (Tineoidea) y la subfamilia Acrolepiinae (Glyphipterigidae), registramos las siguientes tres especies como nuevas para las Islas Canarias: *Xystrologa grenadella* (Walsingham, 1897) (Meessiidae), *Nemapogon granella* (Linnaeus, 1758) y *Tinea translucens* Meyrick, 1917 (Tineidae). *Haplotinea insectella* (Fabricius, 1794) se borra de la lista de las Islas Canarias. También describimos una especie hasta ahora desconocida: *Neurothaumasia betancuriacola* Gaedike & Falck, sp. n.. Para las 31 especies adicionales, hasta ahora conocidas de las Islas Canarias, establecemos primeros registros para algunas islas. Se presenta una lista verificada de las 50 taxas conocidas como presentes en las Islas Canarias, con indicaciones del origen de los registros. PALABRAS CLAVE: Insecta, Lepidoptera, Tineoidea, Meessiidae, Tineidae, Glyphipterigidae, Acrolepiinae, nueva especie, nuevos registros, Islas Canarias, España.

Introduction

In the latest checklist of the Lepidoptera of the Canary Islands by VIVES MORENO (2014) are listed three species of Meessiidae, 35 species and 1 subspecies of Tineidae, and three species of Acrolepiinae. Since then papers have been published dealing with two new species: *Infurcitinea canaricola* Gaedike, 2019 (GAEDIKE, 2019b) (Meessiidae) and *Oinophila blayi* Vives & Gastón, 2017 (VIVES MORENO & GASTÓN, 2017) (Tineidae) and four species new

to the Canary Islands: *Novotinea reinhardella* Nel, 2014 (GAEDIKE, 2015) (Meessiidae), *Nemapogon nevadella* (Caradja, 1920) (GAEDIKE, 2019a), *Ceratobia oxymora* (Meyrick, 1919) (GAEDIKE, 2019a) and *Phereoeca lodli* Vives, 2001 (GAEDIKE, 2019a) (Tineidae).

Based on recent examination of specimens from the above mentioned families by the first author and field work by the second author, we are now able to record four species as new to the Canary Islands: *Xystrologa grenadella* (Walsingham, 1897) (Meessiidae), *Nemapogon granella* (Linnaeus, 1758), *Tinea translucens* Meyrick, 1917 (Tineidae) and a previously undescribed species of the genus *Neurothaumasia*.

The examined material contains several new records for separate islands and these records are marked in bold in a checklist containing all hitherto known 50 taxa (Meessiidae; Tineidae; Acrolepiinae) from the Canary Islands.

Haplotinea insectella (Fabricius, 1794) was hitherto recorded as member of the Canarian fauna, following WALSINGHAM (1908) in KLIMESCH (1980), but it was a misinterpretation of *Setomorpha rutella* (Zeller, 1852) in WALSINGHAM (1908) under the name *Setomorpha insectella* F. sensu Walsingham, 1908. The species is up to now not recorded from the Canary Islands (A. Vives, pers. comm.), the species is to be deleted from the Canary Islands list.

Abbreviations used

coll. Arenberger	Ernst Arenberger, Vienna, Austria
coll. Junnilainen	Jari Junnilainen, Vantaa, Finland
coll. Roweck	Hartmut Roweck, Kiel, Germany
coll. Schmitz	Willibald Schmitz, Bergisch-Gladbach, Germany
coll. Werno	Andreas Werno, Nunkirchen, Germany
FMNH	Finnish Museum of Natural History, Helsinki, Finland
GP	Genitalia preparation
PF	Collection of Per Falck, Neksø, Denmark
MHML	Musée National d'Histoire Naturelle, Luxembourg, Luxembourg
MNCN	Collection A. Vives, Museo Nacional de Ciencias Naturales, Madrid, Spain
SDEI	Senckenberg Deutsches Entomologisches Institut, Müncheberg, Germany
ZFMK	Zoologisches Forschungsmuseum Alexander Koenig, Bonn, Germany
ZMUC	Zoological Museum, Natural History Museum, Copenhagen, Denmark
ZSM	Zoologische Staatssammlung, Munich, Germany

MEESSIIDAE

Tenaga nigripunctella (Haworth, 1828)

PETERSEN & GAEDIKE (1979): LA PALMA; KLIMESCH (1980) (under the genus name *Licheni[sic]vora*): LA PALMA; BÁEZ (2010): LA PALMA; VIVES MORENO (2014).

Examined material: GRAN CANARIA, Los Tilos de Moya, 1 ♂, 19-VII-1984, leg. Olsen, Skule & Stadel (ZMUC). **First record.**

Infurcitinea toechophila (Walsingham, 1908)

PETERSEN & GAEDIKE (1979): LA GOMERA, TENERIFE; KLIMESCH (1980): LA GOMERA; TENERIFE; BÁEZ (2010): LA GOMERA, TENERIFE; VIVES MORENO (2014).

Examined material: LA PALMA, Barlovento, 1 ♀, 27-V-2016, leg. A. Stübner & A. Werno (ZSM). **First record.**

Novotinea reinhardella Nel, 2014

GAEDIKE (2015): FUERTEVENTURA.

Examined material: GRAN CANARIA, Puerto Rico, 0-50 m, 1 ♂, 11-24-VI-2018, leg. P. Falck;

Pie de la Cuesta, 500 m, 2 ♂♂, 11-24-VI-2018, leg. P. Falck; Los Tilos de Moya, 500 m, 1 ♂, 17-30-IX-2018, leg. P. Falck (all PF). **First records.**

Stenoptinea cyaneimarmorella (Millière, 1854)

GAEDIKE (2011): TENERIFE; VIVES MORENO (2014).

Examined material: GRAN CANARIA, Pie de la Cuesta, 500 m, 2 ♂♂, 3 ♀♀, 17-30-IX-2018, leg. P. Falck (PF). **First records.**

Xystrologa grenadella (Walsingham, 1897)

Examined material: GRAN CANARIA, Puerto Rico, 0-50 m, 4 specimens, 11-24-2018, 2 ♂♂, 17-30-IX-2018, leg. P. Falck (PF, SDEI). **New to the Canary Islands.**

TINEIDAE

Rhodobates pinkeri pinkeri Petersen, 1987

KLIMESCH (1980) (under the name *Rhodobates unicolor*): TENERIFE; PETERSEN (1987): TENERIFE; BÁEZ (2010): TENERIFE; VIVES MORENO 2014.

Examined material: LANZAROTE, El Bosquecillo, 600 m, 2 ♂♂, 6-XI-2018, leg. B. Skule & C. Hviid, genitalia slide 2972APF (ZMUC); 0,8 km S. Conil, 1,4 km N. Tias, 240 m, 1 ♂, 2-8-XI-2018, leg. B. Skule & C. Hviid (ZMUC). **First records.**

Nemapogon palmella (Chrétien, 1908)

Holotype from Barranquillo de Santa Catalina, LAS PALMAS [DE GRAN CANARIA]; PETERSEN & GAEDIKE (1979): TENERIFE, GRAN CANARIA; KLIMESCH (1980): TENERIFE, GRAN CANARIA; BÁEZ (2010): TENERIFE, GRAN CANARIA; VIVES MORENO (2014); GAEDIKE (2019a): LA GOMERA.

Examined material: FUERTEVENTURA, Ajuy / Barranco de la Madre del Agua, 1 ♂, 14-IV-2013, leg. A. Werno; La Lajita, 1 ♂, 8-IV-2013, leg. A. Werno (coll. Werno). **First records.**

Nemapogon granella (Linnaeus, 1758)

Examined material: TENERIFE, Las Moraditas, Barranco de Taucho, 1 ♀, 21-III-2010, leg. A. Werno (coll. Werno). **New to the Canary Islands.**

Neurothaumasia betancuriacola Gaedike & Falck, sp. n. (Figs 1-6)

Holotype ♂, SPAIN, FUERTEVENTURA, Betancuria, 400 m, 7-27-XI-2017, leg. P. Falck (coll. ZMUC).

Paratypes: 4 ♂♂, 7 ♀♀, with same collection dates, genitalia slides 9441, 9442 RG, 2972 PF (coll. PF, SDEI, MNCN); LANZAROTE, Las Laderas, 75 m, 1 ♂, 2-8-XI-2018, leg. B. Skule & C. Hviid, genitalia slide 2973 PF (ZMUC); El Bosquecillo, 600 m, 1 ♂, 6-XI-2018, leg. B. Skule & C. Hviid (ZMUC).

Description (Figs 1-2): Wingspan 14-16 mm; head brush white, laterally and below palpi light brown; scape creamy, with pecten, flagellum brown-grey; labial palpus short, outside darker than inside, second segment apically with some bristles; thorax and tegulae white, basally light brown, sometimes thorax brown; forewing brown with clearly defined white pattern. White are: a stripe on dorsum from nearly the base to $\frac{3}{4}$ of the length, last part bent; a stripe from middle of base oblique to costa before $\frac{1}{2}$, basally thin, last half broader; sometimes the stripe fused with the stripe on dorsum, not reaching base (fig. 2), a large lens-shaped patch on costa at $\frac{2}{3}$ and nearly the whole area around brown-tipped apex. Fringe white, somewhat creamy; hindwing grey.

Male genitalia (Figs 3-5): Uncus apically incised, each lobe divided into a somewhat longer

and broader inner part and a shorter and narrower outer part; gnathos arms curved, basal half narrower than apical half, apically forked; valva in first third parallel, then continuously narrower to rounded tip; phallus as long as valva, basally rounded, first third narrowest, before ½ bulged, apical half narrower to pointed tip.

Female genitalia (Fig. 6): Dorsal branches of anterior apophyses ending in a more strongly sclerotized band, ventral branches connected by narrow square band, edge with minute bristles.

Diagnosis: Superficially distinguishable from *N. ragusaella* (Wocke, 1889) by the characteristic white pattern on forewing. The white parts are stripes from nearly the base along dorsum and from the middle of base oblique to costa, a lens-shaped patch on costa and the area around brown-tipped apex, while *ragusaella* is characterized by having on white groundcolor a brown base, a brown stripe at ½ from costa to dorsum, sometimes interrupted in the middle and a stripe on costa before apex, obliquely directed to dorsum at beginning of fringe. The genitalia structures are similar to that taxon, but the shape of uncus lobes and the apically forked gnathos arms are different. The shape of valva varies somewhat, depending on the pressure applied during preparation. The structure of female genitalia shows no clear differences.

Molecular diagnosis: Two specimens of *N. betancuriacola* were sequenced, resulting in 658 bp, full-length DNA barcode fragments for one specimen, and fragments of 615 bp for the other specimen. The nearest neighbor to *N. betancuriacola* is *N. ragusaella* with a 3.8% divergence. The intraspecific variation in the barcode fragment in the sampled *N. betancuriacola* is 0.0%. The results support the status of *N. betancuriacola* as a distinct species.

Etymology: Named after the collection locality of the holotype.

Myrmecozela ataxella (Chrétien, 1905)

GAEDIKE (2010): FUERTEVENTURA; VIVES MORENO (2014).

Examined material: LANZAROTE, 0,8 km S Conil, 1,4 km N Tías, 240 m, 1 ♂, 2-8-XI-2018, B. Skule & C. Hviid (ZMUC). **First record.**

Ateliotum insularis (Rebel, 1896)

PETERSEN & GAEDIKE (1979): LA PALMA, LA GOMERA, TENERIFE, GRAN CANARIA; KLIMESCH (1980): LA PALMA, TENERIFE, GRAN CANARIA; BÁEZ (2010): LA PALMA, LA GOMERA, TENERIFE, GRAN CANARIA; VIVES MORENO (2014).

Examined material: EL HIERRO, Tabaibal, 1200 m, 3 ♂♂, 18-IX-2000, leg. M. & E. Arenberger (coll. Arenberger); Echedo, 200 m, 1 ♂, 11-V-1999, leg. M. & E. Arenberger (coll. Arenberger); Montito de la Rama, W. Frontera, 500 m, 1 ♂, 8-V-1999, leg. M. & E. Arenberger (coll. Arenberger); La Frontera, Los Llanillos, 1 ♀, 9-III-2007, leg. M. Meyer (MHML). **First records.**

Ateliotum larseni Gaedike, 2011

GAEDIKE (2011): Type series from GRAN CANARIA; VIVES MORENO (2014).

Examined material: LA PALMA, Jedey, 540 m, 1 ♀, 1-XI-2010, leg. B. Müller (ZSM). **First record.** TENERIFE, Roque Negro, 990 m, 2 ♀♀, 12-13-XI-2014, leg. A. Stübner (ZSM). **First records.**

Cephimallota crassiflavella Bruand, 1851

PETERSEN & GAEDIKE (1979) (under the name *simplicella*): Tenerife; KLIMESCH (1980) (under the name *simplicella*): TENERIFE, GRAN CANARIA; BÁEZ (2010): (under the name *simplicella*): TENERIFE, GRAN CANARIA; VIVES MORENO (2014).

Examined material: LA GOMERA, Hermigua, El Convento, 600 m, 1 ♂, 6-13-IV-2007, leg. W. Losert; Alojera, 400 m, 1 ♀, 16-IV-1998, leg. K. Larsen (coll. Roweck). **First records.**

Trichophaga tapetzella (Linnaeus, 1758)

KLIMESCH (1980): LA PALMA, TENERIFE; BÁEZ (2010): LA PALMA, TENERIFE, GRAN CANARIA; VIVES MORENO (2014).

Examined material: LANZAROTE, NW Guatiza, Montaña Tameja, 1 ♂, 3 ♀♀, 17-21-VIII-1987, ex l., pellets of *Tyto alba* (Scopoli, 1769), leg. R. Hutterer (ZFMK). **First records.**

Trichophaga bipartitella (Ragonot, 1892)

PETERSEN & GAEDIKE (1979): LA PALMA, TENERIFE, GRAN CANARIA, LANZAROTE; KLIMESCH (1980): LA GOMERA, TENERIFE, GRAN CANARIA, LANZAROTE; VIVES MORENO (2014).

Examined material: EL HIERRO, Echedo, 1 ♂, 11-V-1999, leg. M. & E. Arenberger (coll. Arenberger); Mocanal, 1 ♂, 17-XI-2007, leg. Flesch (coll. Schmitz). **First records.**

Praeacedes atomosella (Walker, 1863)

PETERSEN & GAEDIKE (1979) (under the name *thecophora*): LA PALMA, TENERIFE; KLIMESCH (1980) (under the name *thecophora*): LA PALMA, TENERIFE; BÁEZ (2010): LA PALMA, TENERIFE; VIVES MORENO (2014).

Examined material: EL HIERRO, Tacorón, W. of La Restinga, 1 ♀, 9-V-1999, leg. M. & E. Arenberger (coll. Arenberger). **First record.** LA GOMERA, Valle del Gran Rey, La Playa, 1 ♂, 1 ♀, 26-V-5-VI-2007, 14-IV-2008, leg. A. Werno (coll. Werno). **First records.** GRAN CANARIA, Maspalomas / Carretera, 1 ♂, 8-IX-2012, leg. A. Werno (coll. Werno); Barralozas, 1 ♀, 26-XII-2003, leg. J. Junnilainen (coll. Junnilainen). **First records.**

Tinea murariella Staudinger, 1859

PETERSEN & GAEDIKE (1979): TENERIFE; ROBINSON (1979): TENERIFE; KLIMESCH (1980): TENERIFE; BÁEZ (2010): TENERIFE; VIVES MORENO (2014).

Examined material: GRAN CANARIA, Maspalomas, 1 ♂, 8-IV-1984, leg. P. Grotenfelt (FMNH). **First record.** FUERTEVENTURA, La Lajita, 2 ♂♂, 23-25-IX-2011, leg. A. Werno (coll. Werno); Corralejo, 1 ♂, 27-II-19-III-2018, leg. P. Falck (PF). **First records.**

Tinea translucens Meyrick, 1917

Examined material: GRAN CANARIA: Mundo Aborigen, Barranco del Carrizo, 2 ♂♂, 6-8-IX-2012, leg. A. Stübner & A. Werno (ZSM). **New to the Canary Islands.**

Tinea dubiella Stainton, 1859

Types of the synonym *tenerifi* Zagulajev, 1966 from TENERIFE, La Orotava; ROBINSON (1979): TENERIFE; KLIMESCH (1980) (under the name *turicensis*): TENERIFE; BÁEZ (2010) (under the names *dubiella* and *turicensis*): TENERIFE, GRAN CANARIA; VIVES MORENO (2014).

Examined material: LA GOMERA, Hermigua, 1 ♀, 14-IV-1998, leg. K. Larsen (coll. Roweck). **First record.** GRAN CANARIA, Maspalomas, 2 ♂♂, 1 ♀, 29-X-1981, 2-XI-1983, leg. R. Grotenfelt (FMNH); Mogán, 1 ♂, 22-30-VII-1995, leg. K. Larsen (coll. Roweck); Cueva de Las Niñas, 1 ♂, 29-VII-1995, leg. K. Larsen (coll. Roweck); Barranco de San Andrés, 1 ♀, 11-24-VI-2018, leg. P. Falck (PF). **First records.** FUERTEVENTURA, Vega de Río Palmas, 1 ♀, 19-XII-1996, leg. K. Larsen (coll. Roweck). **First record.**

Tinea basifasciella Ragonot, 1895

PETERSEN & GAEDIKE (1979): TENERIFE, GRAN CANARIA, LANZAROTE; KLIMESCH (1980): TENERIFE, GRAN CANARIA; BÁEZ (2010): TENERIFE, GRAN CANARIA, LANZAROTE; VIVES MORENO (2014).

Examined material: LA PALMA, Barranco de las Angustias, 1 ♂, 1-6-2016, leg. A. Stübner & A. Werno (ZSM). **First record.** LA GOMERA, Valle del Gran Rey, 1 ♂, 4-17-II-2005, leg. H. Retzlaff (coll. Schmitz). **First record.** FUERTEVENTURA, env. of Tarajalejo, 1 ♂, 23-IV-1996, leg. M. & E. Arenberger (coll. Arenberger); east of Ajuy, Barranco de la Pájara, 2 ♂♂, 21-IV-1996, leg. M. & E. Arenberger

(coll. Arenberger); La Lajita, 1 ♂, 25-IX-2011, leg. A. Stübner (ZSM); Corralejo, 1 ♂, 7-27-XI-2017, leg. P. Falck (PF); Betancuria, 400 m, 1 ♂, 27-II-19-III-2018, leg. P. Falck (PF). **First records.**

Tinea trinotella Thunberg, 1794

PETERSEN & GAEDIKE (1979): TENERIFE; KLIMESCH (1980): TENERIFE; BÁEZ (2010): TENERIFE; VIVES MORENO (2014).

Examined material: LA PALMA, env. of Mazo, 1 ♀, 23-III-12-IV-2003, leg. M. & E. Arenberger (coll. Arenberger). **First record.** LA GOMERA, El Cedro, 1000 m, 1 ♀, 24-VII-1984, leg. Olsen, Skule & Stadel (ZMUC). **First record.** GRAN CANARIA, Los Tilos de Moya, 1 ♀, 11-24-VI-2018, leg. P. Falck (PF). **First record.**

Proterospastis merdella (Zeller, 1852)

PETERSEN & GAEDIKE (1979), (under the genus name *Paratinea*): TENERIFE; KLIMESCH (1980) (under the genus name *Paratinea*): TENERIFE; BÁEZ (2010): TENERIFE; VIVES MORENO (2014).

Examined material: LA GOMERA, Playa de Santiago, 2 ♂♂, 25-VII-1984, leg. Olsen, Skule & Stadel (ZMUC). **First record.** GRAN CANARIA, Ayagaures Alto, 1 ♂, 6-IX-2012, leg. A. Stübner (ZSM); Maspalomas / Carretera, 1 ♂, 5-IX-2012, leg. A. Werno (coll. Werno). **First records.**

Ceratobia oxymora (Meyrick, 1919)

GAEDIKE (2019b): TENERIFE.

Examined material: GRAN CANARIA, Puerto Rico, 1 ♂, 50 m, 4-24-III-2019, leg. P. Falck (PF). **First record.**

Metatinea immaculatella (Rebel, 1892)

PETERSEN & GAEDIKE (1979): LA PALMA, LA GOMERA, TENERIFE, GRAN CANARIA; KLIMESCH (1980) (under the genus name *Paratinea*): LA PALMA, LA GOMERA, TENERIFE, GRAN CANARIA, FUERTEVENTURA; BÁEZ (2010): LA PALMA, LA GOMERA, TENERIFE, GRAN CANARIA, FUERTEVENTURA; VIVES MORENO (2014).

Examined material: EL HIERRO, Echedo, 2 ♂♂, 11-V-1999, leg. M. & E. Arenberger (coll. Arenberger); Tacorón W of La Restinga, 1 ♀, 9-V-1999, leg. M. & E. Arenberger (coll. Arenberger). **First records.**

Phereoeca allutella (Rebel, 1892)

PETERSEN & GAEDIKE (1979): LA PALMA, TENERIFE; KLIMESCH (1980): LA PALMA, TENERIFE, GRAN CANARIA; BÁEZ (2010): LA PALMA, LA GOMERA, TENERIFE, GRAN CANARIA; VIVES MORENO (2014).

Examined material: FUERTEVENTURA, La Lajita, 1 ♂, 25-IX-2011, leg. A. Stübner (ZSM); Jandía, Barranco de Esquinzo, 1 ♂, VIII-2014, leg. R. Paas (coll. Schmitz). **First records.**

Monopis imella (Hübner, [1813])

PETERSEN & GAEDIKE (1979): TENERIFE, GRAN CANARIA; KLIMESCH (1980): LA PALMA, EL HIERRO, TENERIFE; BÁEZ (2010): EL HIERRO, LA PALMA, TENERIFE; VIVES MORENO (2014).

Examined material: LA GOMERA, Hermigua, 1 ♀, 23-30-X-2004, leg. W. Losert (coll. Schmitz). **First record.**

Monopis crocicapitella (Clemens, 1859)

PETERSEN & GAEDIKE (1979): TENERIFE, GRAN CANARIA; KLIMESCH (1980): TENERIFE, GRAN CANARIA; BÁEZ (2010): EL HIERRO, LA PALMA, TENERIFE, GRAN CANARIA; VIVES MORENO (2014).

Examined material: LA GOMERA, Hermigua, El Convento, 650 m, 1 ♂, 30-III-6-IV-2008, leg. W. Losert (coll. Schmitz). **First record.**

Monopis nigricantella (Millière, 1872)

KLIMESCH (1980): TENERIFE; BÁEZ (2010): TENERIFE; VIVES MORENO (2014).

Examined material: LA PALMA, Tacande de Abajo, 1 ♂, 6-III-2007, leg. M. Meyer (MHML); Mazo, 540 m, 1 ♂, 6-IV-2003, leg. M. & E. Arenberger (coll. Arenberger). **First records.** FUERTEVENTURA, Jandía, Barranco de Esquinzo, 1 ♂, 28-XII-2008, 1 ♂, 25-II-2009, leg. R. Paas (coll. Schmitz); Vega de Río Palmas, 1 ♂, 19-XII-1996, leg. K. Larsen (coll. Roweck); Corralejo, 1 ♂, 27-II-19-III-2018, leg. P. Falck (PF); La Caldereta, 1 ♂, 27-II-19-III-2018, leg. P. Falck (PF). **First records.**

Oinophila v-flava (Haworth, 1828)

KLIMESCH (1980): TENERIFE; BÁEZ (2010): TENERIFE, GRAN CANARIA; VIVES MORENO (2014).

Examined material: FUERTEVENTURA, Corralejo, 1 ♀, 27-II-19-III-2018, leg. P. Falck (PF). **First record.**

Opogona omoscopia (Meyrick, 1893)

BÁEZ (2010): TENERIFE; VIVES MORENO (2014).

Examined material: LA PALMA, env. of Mazo, 2 ♀♀, 23-III-12-IV-2003, leg. M. & E. Arenberger (coll. Arenberger); env. of Santa Cruz, Barranco del Agua, 2 ♀♀, 6-IV-2003, leg. H. Kolbeck (ZSM). **First records.** LA GOMERA, Hermigua, El Convento, 650 m, 1 ♂, 4 ♀♀, 30-III-5-IV-2008, leg. W. Losert (coll. Schmitz). **First records.** GRAN CANARIA, Los Tilos de Moya, 1 ♂, 11-24-VI-2018, 2 ♀♀, 17-30-IX-2018, leg. P. Falck (PF). **First records.**

Wegneria panchalcella (Staudinger, 1871)

KLIMESCH (1980) (under the genus name *Opogona*): TENERIFE; BÁEZ (2010): TENERIFE; VIVES MORENO (2014).

Examined material: GRAN CANARIA, Pie de la Cuesta, 3 ♂♂, 17-30-IX-2018, leg. P. Falck (PF). **First record.** FUERTEVENTURA, La Lajita, 8 ♂♂, 22-23-IX-2011; 9-IV-2013; Ajuy, 13-IV-2013; La Pared, 10-IV-2013, leg. A. Stübner (ZSM); Caldereta, 1 ♂, 7-27-XI-2017, leg. P. Falck (PF). **First records.**

Amphixystis undosa (Walsingham, 1908)

KLIMESCH (1980) (under the genus name *Ereunetis*): TENERIFE; BÁEZ (2010): TENERIFE; VIVES MORENO (2014).

Examined material: LA GOMERA, Aguio, 1 ♀, 30-IV-6-V-1965, leg. J. Klimesch (ZSM); Hermigua, El Convento, 650 m, 1 ♀, 30-III-5-IV-2008, leg. W. Losert (coll. Schmitz). **First records.**

Setomorpha rutella Zeller, 1852

KLIMESCH (1980) (*Setomorpha insectella* sensu Walsingham, 1908): TENERIFE; - VIVES MORENO (2014).

Examined material: GRAN CANARIA, Puerto Rico, 50 m, 1♂, 11-24-VI-2018, 1 ♂, 17-30-IX-2018, leg. P. Falck; Pie de la Cuesta, 500 m, 1 ♂, 4-23-III-2019, leg. P. Falck (all PF). **First records.** FUERTEVENTURA, Corralejo, 10 m, 2 ♂♂, 7-27-XI-2017, 7 ♂♂, 27-2-19-III-2018, leg. P. Falck. **First records.**

GLYPHIPTERIGIDAE: ACROLEPIINAE

Acrolepiopsis assectella (Zeller, 1839)

VIVES MORENO (2014): TENERIFE, GRAN CANARIA.

Examined material: FUERTEVENTURA, Corralejo, 1 ♀, 27-II-19-III-2018, leg. P. Falck (PF).

First record.

Acrolepiopsis vesperella (Zeller, 1850)

KLIMESCH (1983): TENERIFE; BÁEZ (2010): TENERIFE; VIVES MORENO (2014).

Examined material: LA GOMERA, Homigua, 5 ♂♂, 5 ♀♀, 28-III-7-VI-2013, 25-31-XII-2013, leg. W. Losert (coll. Schmitz). **First records.** GRAN CANARIA, Los Tilos de Moya, 600 m, 1 ♀, 19-VII-1984, leg. Olsen & Skule (ZMUC), several specimens, adult and larvae, 11-24-VI-2018 leg. P. Falck (PF). **First records.**

List of the Canary Islands taxa

Literature sources: 1: BÁEZ, 2010; 2: GAEDIKE, 2010; 3: GAEDIKE, 2011; 4: GAEDIKE, 2015; 5: GAEDIKE, 2019a; 6: GAEDIKE, 2019b; 7: GAEDIKE & KARSHOLT, 2001; 8: KLIMESCH, 1980; 9: KLIMESCH, 1983; 10: PETERSEN, 1987; 11: PETERSEN & GAEDIKE, 1979; 12: ROBINSON, 1979; 13: VIVES MORENO, 2014; 14: VIVES MORENO & GASTÓN, 2014; 15: ZAGULAJEV, 1966.

LP = La Palma; H = El Hierro; G = La Gomera; T = Tenerife; GC = Gran Canaria; F = Fuerteventura; L = Lanzarote.

First records were checked by the authors and marked in **bold**.

Taxon	Sources	Canary Islands
MEESSIIDAE		
<i>Tenaga nigripunctella</i> (Haworth, 1828)	1: 8; 11; 13	LP, GC
<i>Infurcitinea toechophila</i> (Walsingham, 1908)	1; 8; 11; 13	LP, G, T
<i>Infurcitinea canaricola</i> Gaedike, 2019	6	T
<i>Novotinea reinhardella</i> Nel, 2014	4	GC, F
<i>Stenoptinea cyaneimarmorella</i> (Millière, 1854)	3; 13	T, GC
<i>Xystrologa grenadella</i> (Walsingham, 1897)		GC
TINEIDAE		
<i>Rhodobates canariensis</i> Petersen & Gaedike, 1979	1; 8; 11; 13	GC
<i>Rhodobates pinkeri pinkeri</i> Petersen, 1987	1; 8; 10; 13	T, L
<i>Rhodobates pinkeri gomerae</i> Petersen, 1987	1; 10; 13	G
<i>Nemapogon nevadella</i> (Caradja, 1920)	5	LP
<i>Nemapogon palmella</i> (Chrétien, 1908)	1; 5; 8; 11; 13	G, T, GC; F
<i>Nemapogon granella</i> (Linnaeus, 1758)		T
<i>Neurothausia betancuriicola</i> Gaedike & Falck, sp. n.		F, L,
<i>Myrmecozela ataxella</i> (Chrétien, 1905)	2; 13	F, L
<i>Ateliotum petrinella petrinella</i> (Herrich-Schäffer, 1854)	1; 8; 11; 13	GC
<i>Ateliotum insularis</i> (Rebel, 1896)	1; 8; 11; 13	LP, H, G, T, GC
<i>Ateliotum larseni</i> Gaedike, 2011	3; 13	LP, T, GC
<i>Cephimallota crassiflavella</i> Bruand, 1851	1; 8; 11; 13	G, T, GC
<i>Trichophaga tapetzella</i> (Linnaeus, 1758)	1; 8; 13	LP, T, GC, L
<i>Trichophaga bipartitella</i> (Ragonot, 1892)	8; 11; 13	LP, H, G, T, GC, L
<i>Trichophaga robinsoni</i> Gaedike & Karsholt, 2001	1; 7; 13; 16	LP, T, GC, F, L
<i>Tineola bisselliella</i> (Hummel, 1823)	1; 8; 13	T
<i>Praeacedes atomosella</i> (Walker, 1863)	1; 8; 11; 13; 16	LP, H, G, T, GC

<i>Tinea pellationella</i> Linnaeus, 1758	2; 8; 13	LP, T? [*]
<i>Tinea murariella</i> Staudinger, 1859	1; 8; 11; 12; 13	T, GC, F
<i>Tinea messalina</i> Robinson, 1979	1; 12; 13	T
<i>Tinea translucens</i> Meyrick, 1917		GC
<i>Tinea dubiella</i> Stainton, 1859	1; 8; 12; 13; 15	G, T, GC, F
<i>Tinea basifasciella</i> Ragonot, 1895	1; 8; 11; 13	LP, G, T, GC, F, L
<i>Tinea trinitella</i> Thunberg, 1794	1; 8; 11; 13	LP; G; T; GC
<i>Niditinea fuscella</i> (Linnaeus, 1758)	1; 8; 13	T, GC
<i>Proterospastis merdella</i> (Zeller, 1852)	1; 8; 11; 13	G, T, GC
<i>Ceratobia oxymora</i> (Meyrick, 1919)	5	T, GC
<i>Metatinea immaculatella</i> (Rebel, 1892)	1; 8; 11; 13	LP, H, T, GC, F
<i>Phereoeca allutella</i> (Rebel, 1892)	1; 8; 11; 13	LP, G, T, GC, F
<i>Phereoeca lodli</i> Vives, 2001	6	GC
<i>Monopis imella</i> (Hübner, [1813])	1; 8; 11; 13	LP, H, G, T, GC
<i>Monopis crocicapitella</i> (Clemens, 1859)	1; 8; 11; 13; 16	G, T, GC
<i>Monopis nigricantella</i> (Millière, 1872)	1; 8; 13; 16	LP, T, F
<i>Oinophila v-flava</i> (Haworth, 1828)	1; 8; 13	T, GC, F
<i>Oinophila nesiotis</i> Walsingham, 1907	1; 8; 13; 16	LP, T,
<i>Oinophila blayi</i> Vives & Gastón, 2017	14	T
<i>Opogona omoscopa</i> (Meyrick, 1893)	1; 13	LP, G, T, GC
<i>Opogona sacchari</i> (Bojer, 1856)	1; 8; 13; 16	LP, G, T, GC
<i>Wegneria panchalcella</i> (Staudinger, 1871)	1; 8; 13	T, GC, F
<i>Amphixystis undosa</i> (Walsingham, 1908)	1; 8; 13	G, T
<i>Stathmopolitis tragocoprella</i> Walsingham, 1908	1; 5; 8; 13	LP, G, T
<i>Setomorpha rutella</i> Zeller, 1852	13	T, GC, F
GLYPHIPTERIGIDAE: ACROLEPIINAE		
<i>Digitivalva pappella</i> (Walsingham, 1907)	9; 13	T
<i>Acrolepiopsis assectella</i> (Zeller, 1839)	13	T, GC, F
<i>Acrolepiopsis vesperella</i> (Zeller, 1850)	9; 13	G, T, GC

The occurrence in Tenerife is doubtful and has to be confirmed by recent records. KLIMESCH (1980) did not himself examine specimens, but referred to WALSINGHAM (1908). Some of the specimens recorded in the latter paper were examined by ROBINSON (1979): they belong to *T. dubiella* Stainton, 1859 and *T. murariella* Staudinger, 1859.

Acknowledgements

Our study was only possible, because many colleagues enabled us, over many years, to examine numerous specimens. For this support the authors express their special thanks. Our special thanks to Ole Karsholt for the loan of specimens from the collection of ZMUC. Many thanks also to Thomas Simonsen, Naturhistorisk Museum Århus, for his valuable help in interpretation of the DNA Barcoding results, to Dr. Antonio Vives, Madrid, for his important comments and for the translation of the summary into Spanish, and to Andrew Liston (SDEI) for linguistic corrections.

BIBLIOGRAPHY

- BÁEZ, M., 2010.– Orden Lepidoptera. Pp. 302-318.– In M. ARECHAVALETA, S. RODRÍGUEZ, N. ZURITA & A. GARCÍA (eds.). *Lista de especies silvestres de Canarias (hongos, plantas y animals terrestres)*: 577 pp. Gobierno de Canarias, La Laguna. Available from http://www.gobiernodecanarias.org/medioambiente/piac/descargas/Biodiversidad/Listas-Especies/Lista_Especies_Silvestres.pdf.

- GAEDIKE, R., 2010.– New and poorly known Palaearctic Microlepidoptera (Tineidae, Acrolepiidae, Douglasiidae, Epermeniidae).– *Nota lepidopterologica*, **33**(1): 9-24.
- GAEDIKE, R., 2011.– New and poorly known Tineidae from the Western Palaearctic (Lepidoptera).– *Beiträge zur Entomologie*, **61**(2): 357-370.
- GAEDIKE, R., 2015.– Tineidae I (Dryadaulinae, Hapsiferinae, Euplocaminae, Scardiinae, Nemapogoninae and Meessiinae).– *In* M. NUSS, O. KARSHOLT & P. HUEMER. *Microlepidoptera of Europe*, **7**: 308 pp., 6 pls. Brill, Leiden, Boston.
- GAEDIKE, R., 2019a. – Tineidae II (Myrmecozelinae, Perissomasticinae, Tineinae, Hieroxestinae, Teichobiinae and Stathmopolitinae).– *In* O. KARSHOLT, M. MUNTANEN & M. NUSS. *Microlepidoptera of Europe*, **9**: XXIV + 248 pp., 6 pls. Brill, Leiden, Boston.
- GAEDIKE, R., 2019b.– New West Palaearctic Meessiidae and Tineidae (Lepidoptera: Tineoidea).– *SHILAP Revista de lepidopterología*, **47**(185): 75-86.
- GAEDIKE, R. & KARSHOLT, O., 2001.– Contribution to the Lepidoptera fauna of the Madeira Islands. Part 2. Tineidae, Acrolepiidae, Epermeniidae.– *Beiträge zur Entomologie*, **51**(1): 161-213.
- KLIMESCH, J., 1980.– Beiträge zur Kenntnis der Microlepidopteren-Fauna des Kanarischen Archipels. 3. Beitrag: Tineidae, Hieroxestidae.– *Vieraea*, **9**(1/2): 91-114.
- KLIMESCH, J., 1983.– Beiträge zur Kenntnis der Microlepidopteren-Fauna des Kanarischen Archipels. 5. Beitrag: Choreutidae, Glyphipterigidae, Ethmiidae, Acrolepiidae, Epermeniidae, Tinaegeriidae, Momphidae, Cosmopterigidae, Walshidae.– *Vieraea*, **12**(1982)(1/2): 95-112.
- PETERSEN, G., 1987.– Revision der Gattung *Rhodobates* Ragonot (Lepidoptera, Tineidae, Hapsiferinae).– *Entomologische Abhandlungen Staatliches Museum für Tierkunde Dresden*, **50**(9): 167-190.
- PETERSEN, G. & GAEDIKE, R., 1979.– Beitrag zur Kenntnis der Tineiden-Fauna des Mittelmeerraumes.– *Beiträge zur Entomologie*, **29**(2): 383-412.
- ROBINSON, G. S., 1979.– Clothes-moths of the *Tinea pellionella* complex: a revision of the world's species (Lepidoptera: Tineidae).– *Bulletin of the British Museum (Natural History)*, *Entomology series*, **38**(3): 57-128.
- VIVES MORENO, A., 2014.– *Catálogo sistemático y sinónimo de los Lepidoptera de la Península Ibérica, de Ceuta, de Melilla y de las islas Azores, Baleares, Canarias, Madeira y Salvajes (Insecta: Lepidoptera)*: 1184 pp. Suplemento de SHILAP Revista de lepidopterología, Improitalia, Madrid.
- VIVES MORENO, A. & GASTÓN, J., 2017.– Contribución al conocimiento de los Microlepidoptera de España, con la descripción de una especie nueva (Insecta: Lepidoptera).– *SHILAP Revista de lepidopterología*, **45**(178): 317-342.
- WALSINGHAM, L., 1908.– Microlepidoptera of Tenerife.– *Proceedings of the Zoological Society of London*, **1907**: 911-1028, pls 51-53.
- ZAGULAJEV, A. K., 1966.– Novyje vidy molej iz semejstv Tineidae i Ochsenheimeriidae (Lepidoptera). [New species of the moths of the families Tineidae and Ochsenheimeriidae (Lepidoptera)].– *Trudy Zoologicheskogo Instituta Akademii Nauk SSSR*, **37**: 148-176.

*R. G.
 Florusstrasse, 5
 D-53225 Bonn
 ALEMANIA / GERMANY

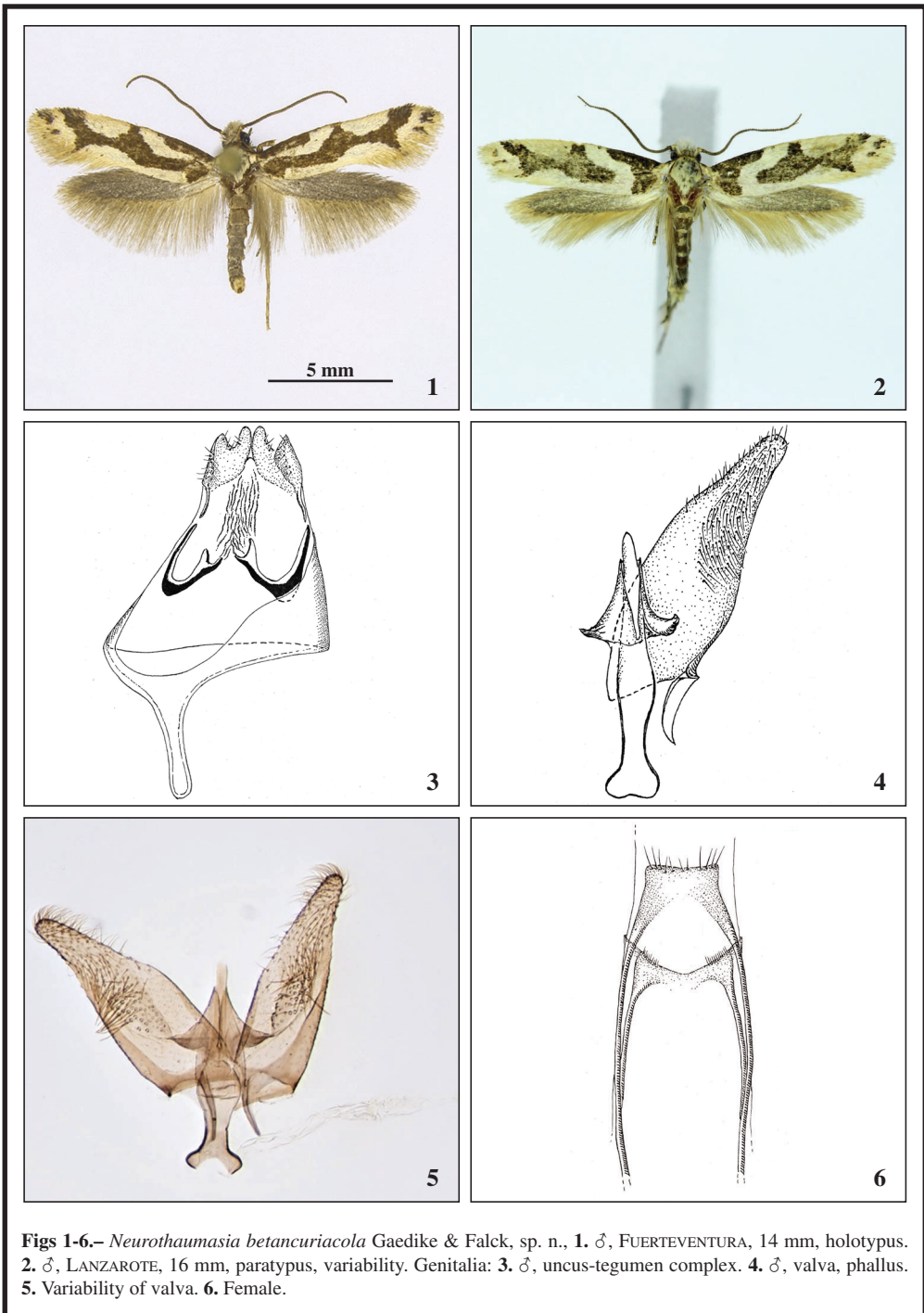
y / and

P. F.
 Aarsdalevej, 22
 DK-3730 Neksø
 DINAMARCA / DENMARK
 E-mail: per.falck@live.dk
<https://orcid.org/0000-0002-0030-9214>

Senckenberg Deutsches Entomologisches Institut
 Müncheberg Strasse, 90
 D-15374 Müncheberg
 ALEMANIA / GERMANY
 E-mail: tinagma@msn.com
<https://orcid.org/0000-0002-9347-6678>

*Autor para la correspondencia / *Corresponding author*

(Recibido para publicación / *Received for publication* 15-V-2019)
 (Revisado y aceptado / *Revised and accepted* 18-VI-2019)
 (Publicado / *Published* 30-IX-2019)



Figs 1-6.– *Neurothaumasia betancuriicola* Gaedike & Falck, sp. n., **1.** ♂, FUERTEVENTURA, 14 mm, holotypus. **2.** ♂, LANZAROTE, 16 mm, paratypus, variability. Genitalia: **3.** ♂, uncus-tegumen complex. **4.** ♂, valva, phallus. **5.** Variability of valva. **6.** Female.