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An annotated list of Italian Pterophoridae (Lepidoptera)

by

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Abstract: 85 species of Italian Pterophoridae are listed with their range, Italian distribution, notes on environments preference and voltinism. Nearly 10 % of the species recorded are new for the Italian fauna, e.g. *Agdistis melitensis* AMSEL, *Capperia maratonica* ADAMC., *Mariana taprobanes* FELD., *Stenoptilia grandis* CHAPM., *Pterophorus fuscolimbatus* DUP., *Pterophorus punctinervis* CONST., *Calyciphora adams* CONST., *Emmelina jezonica* MATS.

Platyptilia zavattarii HARTIG is put in synonymy with *Mariana taprobanes* FELDER.

Introduction. Systematics and distribution of Italian Pterophoridae are imperfectly known. Previous data on this taxon, mainly given by CURO & TURATI (1883), TURATI & VERITY (1911), MARIANI (1943), etc. are often based on doubtful sources and misidentifications.

The difficulty to identify several species without adequate genitalic dissections, led many authors to create several synonyms. Therefore, even to-day, there are divergent opinions on the status of some species (see BIGOT, 1960, 1961, 1962; HANNEMANN, 1977; ARENBERGER, 1977).

Very few faunal list on Italian Pterophoridae appeared over the years, their relevant

data being mostly included in other Microlepidoptera lists such as those by HARTIG & AMSEL (1951), HARTIG (1960), KLIMESCH (1951). These lists dealt with microlepidoptera fauna of Sardinia and central eastern Alps, respectively. PARENTI (1962) gave a list of the microlepidoptera of a restricted area in central Apennines.

The present list tries to fill the gap which lies between the relatively well known fauna of the Alps and that of the poorly studied countries of central and southern Italy.

Large use of systematic and nomenclatorial papers of BIGOT (1960, 1961, 1962), HANNEMANN (1977), ARENBERGER (1977), LERAUT (1980), has been made.

A distribution map for each species is given. Round blotches refer to specimens collected or examined by the authors, stars denote localities from literature.

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Agdistis HÜBNER, 1825

1 *A. adactyla* (HÜBNER, 1819)

Range: Afghanistan, Austria, Czechoslovakia, France, Hungary, Germany, Iran, Italy, Morocco, Poland, Spain, Switzerland, USSR, Yugoslavia.

Distribution: Vale d'Aosta, Trentino Alto Adige.

Note: Unrecorded from Italian Peninsula. It has been cited from Valle d'Aosta (KLIMESCH, 1963) and Trentino Alto Adige (HARTIG, 1960).

Flight: IV, VI, VII, VIII.

2 *A. satanas* MILLIÉRE, 1875

Range: Bulgaria, France, Germany, Italy, Lybia, Morocco, Spain.

Distribution: Lazio, Puglia, Sicilia, Sardegna.

Note: A rare and local species in halophile environment where *Limoniastrum monopetalum* (L.) grows. Found also in the hills on *Scabiosa candicans* JORDAN and *Scleranthus* sp. (ARENBERGER, 1977).

Flight: V, VI, VII, VIII.

3 *A. heydeni* (ZELLER, 1852)

Range: Albania, Algeria, Bulgaria, Canary Islands, Cyprus, Corsica, Creta, France, Greece, Israel, Italy, Lybia, Morocco, Portugal, Syria, Spain, Tunisia,

Turkey.

Distribution: Toscana, Umbria, Lazio, Abruzzo, Lucania, Calabria, Puglia, Sicilia, Sardegna.

Note: Common and abundant from the coast to the mountains at moderate elevations, near woods, hedges, river courses and uncultivated fields.

Flight: V, VI, VIII.

4 *A. melitensis* AMSEL, 1954

Range: Italy, Malta, Tunisia.

Distribution: Toscana, Lazio.

Note: This species is locally common in halophile environments in maquis, along the central Tyrrhenian coasts. Foodplant unknown. New for Italian fauna.

Flight: VI, VII, VIII, IX.

5 *A. protai* ARENBERGER, 1973

Range: Italy.

Distribution: Toscana, Sardegna.

Note: An endemic species, very locally on saltish dunes.

Flight: VII, VIII.

6 *A. paralia* (ZELLER, 1847)

Range: France, Italy, Malta, Morocco, Spain, Tunisia.

Distribution: Sicilia.

Note: Recorded only from Sicilia (ARENBERGER, 1977).

Flight: IV to IX.

7 *A. frankeniae* (ZELLER, 1847)

Range: Algeria, Balearic Islands, Canary Islands, Cyprus, Crete, Egypt, France, Greece, Israel, Italy, Lybia, Malta, Morocco, Romania, Spain, Turkey, USSR.

Distribution: Toscana, Puglia, Sicilia, Sardegna.

Note: Sandy and rocky sea boards with saltish vegetation. Larval food plant: *Frankenia* sp. (ARENBERGER, 1977).

Flight: V, VI, VIII.

8 *A. bennetti* (CURTIS, 1834)

Range: Albania, Belgium, Denmark, France, Germany, Great Britain, Holland, Italy, Romania, Spain, Yugoslavia.

Distribution: Veneto, Friuli Venezia Giulia, Toscana, Lazio, Puglia.

Note: This species is very common in sandy coast and saltish marshes at

sea-level. Foodplant: *Limonium* sp.

Flight: VI, VIII, IX.

9 *A. meridionalis* (ZELLER, 1847)

Syn. *A. tyrrenica* AMSEL, 1951; *A. prolai* HARTIG, 1953.

Range: Albania, Canary Islands, Cyprus, France, Greece, Italy, Morocco, Spain, Tunisia, Yugoslavia.

Distribution: Toscana, Lazio, Sicilia, Sardegna.

Note: Locally on rocky seaboard and marshes with *Limonium*. In Lazio, Mt. Circeo its food plant is *Limonium pontium* PIGNATTI.

Flight: IV, V, VIII, IX.

10 *A. tamaricis* (ZELLER, 1847)

Range: Afghanistan, Algeria, Arabia, Balearic Islands, Bulgaria, Canary Islands, China, Crete, Egypt, France, Germany, Green Cape Islands, Jordan, Iran, Iraq, Israel, Italy, Libya, Malta, Morocco, Pakistan, Romania, Spain, Sudan, Turkey, Tunisia, Yugoslavia.

Distribution: Veneto, Emilia Romagna, Marche, Toscana, Lazio, Lucania, Puglia, Sicilia, Sardegna.

Note: A common species found along the sea coast where wild *Tamarix* sp. grows.

Flight: IV to IX.

11 *A. hartigi* ARENBERGER, 1973

Range: Spain, Italy.

Distribution: Sardegna.

Note: Recorded only from Sardegna, Cagliari (ARENBERGER, 1977).

Flight: VI, VII, IX, X.

Oxyptilus ZELLER, 1841

12 *O. pilosellae* ZELLER, 1841

Range: Austria, Belgium, Bulgaria, Czechoslovakia, Denmark, Finland, France, Germany, Great Britain, Holland, Hungary, Italy, Morocco, Norway, Spain, Sweden, Switzerland, Yugoslavia.

Distribution: Lombardia, Trentino Alto Adige, Emilia Romagna?, Toscana?, Lazio.

Note: We found this species in two hilly localities in Lazio, Monte Flavio and Cittaducale Cardito.

Flight: V, VII.

- 13 *O. chrysodactylus* (DENIS & SCHIFFERMÜLLER, 1775)
 Range: Belgium, Bulgaria, Czechoslovakia, Finland, France, Germany, Holland, Italy, Norway, Romania, Spain, Sweden, Switzerland, USSR.
 Distribution: Lombardia, Trentino Alto Adige, Emilia Romagna, Sicilia.
 Note: It seems to be local in the Alps. The localities recorded by ZANGHERI (1969) and MARIANI (1943) from Emilia Romagna and Sicily need confirmation.
 Flight: V to VIII.
- 14 *O. ericetorum* (ZELLER, 1844)
 Range: Austria, Belgium, Bulgaria, Czechoslovakia, Denmark, Finland, France, Germany, Greece, Italy, Norway, Poland, Sweden, Switzerland.
 Distribution: Trentino Alto Adige.
 Note: We have no reliable data from Italy; HARTIG (1960) reports on one specimen in coll. TURATI but he doubts its identification.
 Flight: VI.
- 15 *O. parvidactylus* (HAWORTH, 1811)
 Range: Austria, Belgium, Bulgaria, Czechoslovakia, Finland, France, Iran, Italy, Norway, Poland, Romania, Sweden, Switzerland, USSR, Yugoslavia, W. Asia.
 Distribution: Valle d'Aosta, Trentino Alto Adige, Emilia Romagna, Umbria, Lazio, Abruzzo, Lucania, Sicilia.
 Note: We found this species locally from sea coast to mountainous districts. Lowlands records in Emilia Romagna and Sicilia, need confirmation.
 Flight: VI, VII.

Crombrugghia TUTT, 1906

- 16 *C. distans* (ZELLER, 1847)
 Range: Afghanistan, Albania, Algeria, Austria, Belgium, Bulgaria, Canary Islands, Czechoslovakia, France, Germany, Great Britain, Greece, Holland, Hungary, Iran, Italy, Morocco, Palestine, Poland, Portugal, Romania, Spain, Switzerland, Turkey, USSR, Yugoslavia.
 Distribution: Valle d'Aosta, Piemonte, Lombardia, Veneto, Trentino Alto Adige, Emilia Romagna, Liguria, Toscana, Umbria, Lazio, Abruzzo, Lucania, Sicilia, Sardegna.
 Note: Very common and widespread from the sea coast to the mountains up to 1700 m.
 Flight: V to IX.

17 *C. laeta* (ZELLER, 1847)

Range: Afghanistan, Albania, Algeria, Bulgaria, Canary Islands, Corsica, France, Greece, Iran, Iraq, Italy, Lybia, Mauritania, Morocco, Portugal, Spain, Turkey, Tunisia, USSR, Yugoslavia.

Distribution: Valle d'Aosta, Trentino Alto Adige, Emilia Romagna, Toscana, Lazio, Umbria, Abruzzo, Puglia, Calabria, Sicilia, Sardegna.

Note: Common in lowlands and mountains to 1400 m, often together with *C. distans* in sunny and arid places.

Flight: VI to IX.

18 *C. kollari* (STEINTON, 1851)

Range: Asia Minor, Austria, France, Italy.

Distribution: Valle d'Aosta, Piemonte, Lombardia, Trentino Alto Adige.

Note: An Alpine species; absent from the Appennines and islands.

Flight: VI, VII, VIII.

19 *C. tristis* (ZELLER, 1839)

Range: Austria, Bulgaria, France, Italy, Poland, Portugal, Spain, USSR, Yugoslavia.

Distribution: Trentino Alto Adige, Toscana, Sicilia.

Note: We have never found this species and we doubt on the localities Toscana (CURÒ & TURATI, 1883) and Sicilia (ZERNY, 1943).

Flight: VI, VII, VIII.

Stangeia TUTT, 1908

20 *S. seceliota* (ZELLER, 1847)

Range: Algeria, Bulgaria, Canary Islands, France, Greece, Iran, Italy, Jordan, Morocco, Portugal, Syria, Spain, Turkey, Yugoslavia, W. Asia.

Distribution: Liguria, Toscana, Lazio, Abruzzo, Lucania, Sicilia, Sardegna.

Note: An uncommon and local species, unfrequent along the sea coast in maquis. Recorded also from Gigilio (ROCCI & TURARI, 1925) and Elba.

Flight: V to IX.

Geina TUTT, 1907

21 *G. didactyla* (LINNÉ, 1758)

Range: Austria, Bulgaria, Czechoslovakia, Denmark, Finland, France, Germany, Italy, Norway, Romania, Spain, Sweden, Turkey, USSR.

Distribution: Valle d'Aosta, Piemonte, Trentino Alto Adige.

Note: A local alpine species; it has been confused with other species (MARIANI, 1943; ZANGHERI, 1969).

Flight: VI, VII.

Procapperia ADAMCZEWSKI, 1951

22 *P. maculata* (CONSTANT, 1865)

Range: Bulgaria, France, Italy.

Distribution: Valle d'Aosta, Piemonte.

Note: A local species in western Alps.

Flight: VII, VIII.

Capperia TUTT, 1905

23 *C. celeusi* (SCHMID, 1887)

Range: Albania, Austria, Belgium, Bulgaria, Czechoslovakia, France, Germany, Greece, Hungary, Iran, Italy, Romania, Spain, Switzerland, Turkey, Yugoslavia.

Distribution: Piemonte, Veneto, Trentino Alto Adige.

Note: A rare species found occasionally in northern Italy.

Flight: V to IX.

24 *C. fusca* (HOFMANN, 1898)

Range: Belgium, Bulgaria, France, Germany, Greece, Italy, Poland, Switzerland, USSR, Yugoslavia.

Distribution: Lucania, Puglia, Calabria.

Note: A rare species found in humid and woody environments in Southern Italy. It is a new record from Italy.

Flight: VI, VII.

25 *C. hellenica* ADAMCZEWSKI, 1951

Range: Afghanistan, France, Greece, Italy, Lebanon, Spain, Yugoslavia.

Distribution: Lazio, Lucania, Puglia.

Note: A rare and local species in central and Southern Italy. ADAMCZEWSKI (1951) reports this species from North Italy. "Ps. de Grey", a locality we were not able to trace.

26 *C. polonica* ADAMCZEWSKI, 1951

Range: France, Italy, Turkey.

Distribution: Sardegna.

Note: We have not found this species; only the type series from Sardegna, Aritzo is known.

Flight: VI.

- 27 *C. marginella* (ZELLER, 1847)
 Range: Bulgaria, Italy, Morocco.
 Distribution: Sicilia.
 Note: Known only from Sicilia, Siracusa (ADAMCZEWSKI, 1951)
 Flight: V.
- 28 *C. zelleri* ADAMCZEWSKI, 1951
 Range: Italy.
 Distribution: Sicilia.
 Note: Only the holotype from Sicilia, Catania is known.
 Flight: VII.
- 29 *C. maratonica* ADAMCZEWSKI, 1951
 Range: Bulgaria, Italy, Palestine, Yugoslavia.
 Distribution: Lazio.
 Note: A new record from Italy, found on marshy ground along the River Mignone. BUSZKO (1979) bred this species on *Teucrium scordioides* SCHREB.
 Flight: VII, VIII.

Marasmarcha MEYRICK, 1886

- 30 *M. lunaedactyla* (HAWORTH, 1811)
 Range: Austria, Belgium, Czechoslovakia, France, Germany, Great Britain, Greece, Holland, Italy, Portugal, Romania, Sweden, Switzerland, USSR.
 Distribution: Piemonte, Lombardia, Trentino Alto Adige, Liguria.
 Note: Found along the Alps at moderate elevations.
 Flight: V, VI, VII.
- 31 *M. wulschlegeli* MÜLLER-RUTZ, 1914
 Range: France, Italy, Switzerland.
 Distribution: Valle d'Aosta, Lombardia, Veneto, Trentino Alto Adige.
 Note: Found sparingly along the Alps.
 Flight: V, VI, VII.

Cnaemidophorus WALLENGREN, 1862

- 32 *C. rhododactylus* (DENIS & SCHIFFERMÜLLER, 1775)
 Range: N. Africa, N. America, Asia, Europe.
 Distribution: Piemonte, Veneto, Trentino Alto Adige, Liguria, Emilia Romagna, Toscana, Lazio, Lucania, Puglia, Calabria, Sicilia, Sardegna.
 Note: Common everywhere from sea coast to moderate elevations.
 Flight: VI, VII, VIII, IX.

Richardia BUSZKO, 1978

33 *R. capnodactyla* (ZELLER, 1841)

Range: Bulgaria, Czechoslovakia, Germany, Hungary, Italy, Poland, Sweden, Turkey, Yugoslavia.

Distribution: Emilia Romagna, Lazio.

Note: uncommon in humid woodlands from sea level to 1000 m.

Flight: VI, VII.

Amblyptilia (HÜNBNER, 1825)

34 *A. acanthodactyla* (HÜNBNER, 1813)

Range: N. Africa, N. America, Asia, Europe.

Distribution: Lombardia, Piemonte, Veneto, Trentino, Alto Adige, Toscana, Emilia Romagna, Lazio, Abruzzo, Puglia, Calabria, Lucania, Sicilia, Sardegna.

Note: A polyphagous species widespread from sea level to 1300 m.

Flight: V to XI.

35 *A. punctidactyla* (HAWORTH, 1811)

Range: Asia Minor, N. America, Austria, Bulgaria, Crete, Czechoslovakia, Denmark, Finland, France, Germany, Great Britain, Eire, Italy, Manchuria, Norway, Portugal, Sweden, Switzerland, USSR.

Distribution: Piemonte, Veneto, Trentino, Alto Adige, Friuli Venezia Giulia, Emilia Romagna, Lazio, Abruzzo.

Note: Uncommon and local in open woods from 500 to 1500 m.

Flight: VI, VII, VIII.

Platyptilia HÜBNER, 1825

36 *P. tesseradactyla* (LINNÉ, 1761)

Range: N. America, Austria, Belgium, Bulgaria, Czechoslovakia, Finland, France, Germany, Great Britain, Italy, Norway, Poland, Sweden, Switzerland, USSR, Yugoslavia.

Distribution: Lombardia, Trentino Alto Adige, Emilia Romagna, Toscana, Sicilia.

Note: Recorded from several districts in the hills and mountains. We have never collected this species.

Flight: IV–IX.

37 *P. farfarella* ZELLER, 1867

Range: Albania, Austria, Bulgaria, France, Germany, Hungary, Italy, Japan, Poland, Switzerland, Turkey, Yugoslavia.

Distribution: Veneto, Trentino Alto Adige, Friuli Venezia Giulia, Abruzzo, Sicilia.

Note: A rather rare species found from 300 to 1500 m.

Flight: V, VII, VIII.

38 *P. metzneri* (ZELLER, 1841)

Range: Albania, Bulgaria, Czechoslovakia, France, Hungary, Italy, Japan, Manchuria, Switzerland, Taiwan, USSR.

Distribution: Piemonte, Veneto, Trentino Alto Adige.

Note: Distributed in the Alpine region only, local and rare.

Flight: VI, VII, VIII.

39 *P. gonodactyla* (DENIS & SCHIFFERMÜLLER, 1775)

Range: Asia Minor, Austria, Belgium, Bulgaria, China, Czechoslovakia, Denmark, Finland, France, Germany, Great Britain, Holland, Italy, Manchuria, Mongolia, Morocco, Norway, Poland, Romania, Sweden, Switzerland, Turkey, USSR.

Distribution: Valle d'Aosta, Piemonte, Veneto, Trentino Alto Adige, Emilia Romagna, Abruzzo, Lucania, Calabria, Sicilia.

Note: Common and widespread in the mountains except Sardegna.

Flight: IV to X.

40 *P. calodactyla* (DENIS & SCHIFFERMÜLLER, 1775)

Range: Austria, Belgium, Bulgaria, China, Czechoslovakia, Denmark, Finland, France, Germany, Great Britain, Holland, Italy, Morocco, Norway, Poland, Sweden, Switzerland, USSR, Yugoslavia.

Distribution: Veneto, Trentino Alto Adige, Emilia Romagna.

Note: A local species in the Alps above 1000 m.

Flight: VII.

41 *P. nemoralis* (ZELLER, 1841)

Range: Austria, Belgium, Bulgaria, Czechoslovakia, France, Germany, Holland, Italy, Poland, Yugoslavia.

Distribution: Piemonte, Trentino Alto Adige, Liguria.

Note: Uncommon in alpine region above 1000 m.

Flight: VI, VII.

42 *P. ochrodactyla* (DENIS & SCHIFFERMÜLLER, 1775)

Range: Albania, Austria, Belgium, Bulgaria, Czechoslovakia, Denmark, Finland, France, Germany, Great Britain, Holland, Italy, Norway, Romania, Sweden, Switzerland, USSR, Yugoslavia.

Distribution: Piemonte, Veneto.

Note: Local in a few alpine localities, above 1000 m.

Flight: VII.

43 *P. pallidactyla* (HAWORTH, 1811)

Range: N. America, Austria, Belgium, Bulgaria, Czechoslovakia, Denmark,

Finland, France, Germany, Great Britain, Holland, Hungary, Italy, Manchuria, Norway, Sweden.

Distribution: Veneto, Trentino Alto Adige.

Note: A single record from Veneto, Mt. Baldo 1500 m and reported from Trentino Alto Adige by HARTIG (1960).

Flight: VI, VII.

Mariana TUTT, 1907

44 *M. taprobanes* (FELDER, 1875)

Range: Africa, Bulgaria, N. u. S.-America, Ceylon, Hawaii, India, Italy, Japan, Lybia, Malta, Syria, Thailand.

Distribution: Lazio.

Note: A new record for Italy. Numerous on sandy coasts in halophile environment. Genitalic examination showed that this taxon is conspecific with *Platyptilia zavattarii* HARTIG, 1953 syn. nov.

Flight: VIII, IX.

Stenoptilia HÜBNER, 1825

45 *S. graphodactyla* (TREITSCHKE, 1833)

Range: Austria, Belgium, Bulgaria, Czechoslovakia, France, Germany, Great Britain, Hungary, Italy, Yugoslavia.

Distribution: Veneto, Emilia, Calabria.

Note: A rare mountainous species reported from few localities.

Flight: V, VI, VIII.

46 *S. grandis* CHANMAN, 1908

Range: Albania, France, Italy, Spain, Yugoslavia.

Distribution: Lazio, Sardegna.

Note: This species is new for Italy. Only a few specimens known from Mt. Livata m. 1300 (Lazio) and Musei (Sardegna).

Flight: VI, IX.

47 *S. pelidnodactyla* (STEIN, 1837)

Range: Austria, Bulgaria, Czechoslovakia, Denmark, Finland, France, Germany, Italy, Morocco, Norway, Romania, Sweden, Switzerland, USSR.

Distribution: Piemonte, Trentino Alto Adige, Liguria, Emilia Romagna, Lazio.

Note: A lowland species, but more common in hilly and xerophilous environments.

Flight: V, VI, VII.

- 48 *S. paludicola* (WALSINGHAM, 1859)
 Range: Austria, Bulgaria, Germany, Italy, Jordan, Norway, Sweden.
 Distribution: Piemonte.
 Note: A species found by PARENTI in the lowlands of Piemonte. The record of TURATI (1928) for the Nat. Park of Gran Paradiso must be confirmed.
 Flight: V, VI, VIII.
- 49 *S. coprodactyla* (STAINTON, 1851)
 Range: Albania, Asia Minor, Austria, Bulgaria, Czechoslovakia, France, Germany, Italy, Morocco, Romania, Spain, Switzerland, USSR, Yugoslavia.
 Distribution: Valle d'Aosta, Piemonte, Lombardia, Veneto, Trentino Alto Adige, Liguria, Abruzzo.
 Note: Frequently found in alpine regions to 2200 m.
 Flight: VI, VII, VIII.
- 50 *S. zophodactyla* (DUPONCHEL, 1840)
 Range: Africa, America, Asia, Australia, Europe.
 Distribution: Veneto, Toscana, Lazio, Abruzzo, Lucania, Puglia, Sicilia, Sardegna.
 Note: A common species in various environments from lowlands to 1000 m.
 Flight: VI, VII, IX.
- 51 *S. bipunctidactyla* (SCOPOLI, 1763)
 Range: N. Africa, Albania, Asia, Austria, Belgium, Bulgaria, Canary Islands, Crete, Czechoslovakia, Denmark, Finland, France, Germany, Great Britain, Greece, Holland, Hungary, Iran, Italy, Pakistan, Palestine, Romania, Syria, Switzerland, Turkey, USSR, Yugoslavia.
 Distribution: Valle d'Aosta, Piemonte, Lombardia, Veneto, Trentino Alto Adige, Liguria, Emilia Romagna, Toscana, Lazio, Abruzzo, Puglia, Lucania, Calabria, Sicilia, Sardegna.
 Note: Widespread in Italy from sea level up to 1400 m, preferably in xerophilous environments.
 Flight: VI to IX.
- 52 *S. pterodactyla* (LINNÉ, 1879)
 Range: Albania, N. America, W. Asia, Austria, Belgium, Bulgaria, Czechoslovakia, Denmark, Finland, France, Germany, Great Britain, Holland, Hungary, Italy, Malta, Norway, Romania, Sweden, Switzerland, USSR, Yugoslavia.
 Distribution: Valle d'Aosta, Piemonte, Veneto, Trentino Alto Adige, Abruzzo, Calabria, Sicilia.
 Note: A common species along the Alps and the Appennines from 900 to 1800 m.

Unrecorded from Sardegna.

Flight: VI, VII, VIII.

53 *S. stigmatodactyla* (ZELLER, 1852)

Range: Asia, Austria, Bulgaria, Czechoslovakia, Germany, Greece, Holland, Hungary, Iran, Italy, Morocco, USSR, Yugoslavia.

Distribution: Trentino Alto Adige, Toscana, Abruzzi, Sicilia.

Note: A few records only of this rare and local species distributed at low to moderate altitudes.

Flight: VI, VII, VIII.

54 *S. arida* (ZELLER, 1847)

Range: Balearic Island, Bulgaria, Greece, Italy, Spain, Yugoslavia.

Distribution: Liguria, Trentino Alto Adige, Sicilia.

Note: This species has long been confused with *S. bipunctidactyla*. The only reliable localities in Italy are those quoted.

Flight: VII, IX.

Pterophorus SCHÄFFER, 1766

55 *P. tridactylus* (LINNÉ, 1758)

Range: Afghanistan, N. Africa, China, Europe, Mongolia, USSR.

Distribution: Lombardia, Lazio, Abruzzo, Sicilia.

Note: A common and widespread species in grassy mountainous plains from 600 to 2000 m. This taxon has long been confused with *P. malacodactylus*, therefore earlier citations are not reported.

Flight: V, VI, VII, VIII.

56 *P. malacodactylus* ZELLER, 1847

Range: Afghanistan, Bulgaria, Cyprus, France, Greece, Iran, Iraq, Israel, Italy, Lebanon, Malta, Morocco, Spain, Turkey, Tunisia, USSR, Yugoslavia.

Distribution: Piemonte, Lombardia, Veneto, Trentino Alto Adige, Toscana, Lazio, Umbria, Abruzzo, Lucania, Calabria, Sicilia, Sardegna.

Note: Very common from sea coast to 1000 m in xerophilous environments.

Flight: V to IX.

57 *P. pentadactylus* (LINNÉ, 1761)

Range: Albania, Austria, Belgium, Bulgaria, China, Czechoslovakia, Denmark, Finland, France, Germany, Great Britain, Greece, Hungary, Italy, Manchuria, Norway, Portugal, Syria, Switzerland, Turkey, USSR, Yugoslavia.

Distribution: Piemonte, Valle d'Aosta, Lombardia, Veneto, Trentino Alto Adige, Liguria, Emilia Romagna, Toscana, Umbria, Lazio, Marche, Abruzzo, Lucania, Puglia, Sicilia, Sardegna.

Note: Very common and widespread from lowlands to 1700 m.

Flight: V to IX.

- 58 *P. fuscolumbat* DUPONCHEL, 1844
 Range: Afghanistan, Austria, Bulgaria, Czechoslovakia, Denmark, Eire, France, Germany, Greece, Iran, Italy, Morocco, Poland, Portugal, Spain, Sweden, Turkey, USSR, Yugoslavia.
 Distribution: Piemonte, Puglia, Sardegna.
 Note: A new record for Italy: we have three specimens from Piemonte, Sardegna and Puglia respectively.
 Flight: V, VII.
- 59 *P. baliodactylus* ZELLER, 1841
 Range: Albania, Austria, Belgium, Bulgaria, Czechoslovakia, Denmark, Finland, France, Germany, Great Britain, Italy, Morocco, Portugal, Sweden, Switzerland, USSR, Yugoslavia.
 Distribution: Trentino Alto Adige, Abruzzo, Lucania, Puglia.
 Note: Rare and local in various environments from sea coast to 1300 m.
 Flight: VI, VII.
- 60 *P. semiodactylus* MANN, 1855
 Range: France, Italy.
 Distribution: Sardegna.
 Note: Recorded from a few localities in Sardegna only.
 Flight: VI, VII.
- 61 *P. ischnodactylus* (TREITSCHKE, 1835)
 Range: Algeria, Arabia, Bahrain, Belgium, Bulgaria, France, Greece, Hungary, Israel, Italy, Libya, Malta, Mongolia, Pakistan, Poland, Romania, Yugoslavia.
 Distribution: Trentino Alto Adige, Liguria, Lazio, Lucania, Sicilia.
 Note: An uncommon species from sea coast to 1000 m.
 Flight: V to IX.
- 62 *P. punctinervis* (CONSTANT, 1885)
 Range: France, Italy, Portugal, Spain.
 Distribution: Sicilia, Sardegna.
 Note: Reported from two localities only in Sicilia, Etna, Rifugio Ficuzza 1100 m and Sardegna, Laconi, Fontanamelo 600 m.
 Flight: VII, X.
- 63 *P. spilodactylus* CURTIS, 1827
 Range: Austria, France, Germany, Great Britain, Italy, Spain, Yugoslavia.
 Distribution: Trentino Alto Adige.
 Note: This species is reported in Italy from a single locality in Val Venosta (HARTIG, 1960). Many authors consider *spilodactylus* conspecific with *obsoletus* and *confusus*. We treat *obsoletus* as a good species.
 Flight: VII.

64 *P. obsoletus* ZELLER, 1841

Range: Austria, Bulgaria, Czechoslovakia, Greece, Hungary, Iran, Israel, Italy, Poland, Romania, Syria, Turkey, USSR, Yugoslavia.

Distribution: Sicilia, Sardegna.

Note: Recorded only from Sicilia and Sardegna (HARTIG & AMSEL, 1951).

Flight: VI.

65 *P. tyrrhenicus* (AMSEL, 1952)

Range: France, Italy.

Distribution: Sardegna.

Note: An endemic species of Corsica and Sardegna.

Flight: IX, X.

Calyciphora KASY, 1960

66 *C. xerodactyla* (ZELLER, 1841)

syn. *C. xanthodactyla* auct., *C. sicula* (FUCHS, 1901)

Range: Austria, Bulgaria, Czechoslovakia, France, Germany, Greece, Hungary, Italy, Poland, Romania, Spain, Turkey, USSR.

Distribution: Piemonte, Lombardia, Trentino Alto Adige, Emilia Romagna, Lazio, Abruzzo, Campania, Calabria, Lucania, Puglia, Sicilia.

Note: Widespread in hilly environments to 1400 m.

CARADJA (1928) has described as f. *stauderi* large specimens of *xerodactyla* from Sicilia. We were not able to examine specimens of this form.

Flight: VII, VIII, IX.

67 *C. nephelodactyla* (EVERSMANN, 1844)

Range: Austria, Bulgaria, Czechoslovakia, France, Greece, Italy, Poland, Switzerland, Turkey, USSR, Yugoslavia.

Distribution: Veneto, Trentino Alto Adige, Lazio, Abruzzo.

Note: A rare and local species in the Alps and the Appennines.

JAECKH (1961) and PARENTI (1962) report the larve feeding on *Cirsium eriophorum* SCOP.

Flight: VII, VIII.

68 *C. adamas* (CONSTANT, 1895)

Range: France, Italy, Spain.

Distribution: Liguria.

Note: A rare and local species in South Spain and Maritime Alps. In Italy it is known only from Liguria, Val Nervia (coll. BURMANN).

Flight: IX.

69 *C. acarnella* (WALSINGHAM, 1898)

Range: France, Italy.

Distribution: Sardegna.

Note: An endemic species of Sardegna and Corsica, rare and local.

Flight: VII, VIII.

Pselnophorus WALLENGREN, 1881

70 *P. heterodactylus* (MÜLLER, 1764)

Range: Austria, Canary Islands, Czechoslovakia, Denmark, France, Germany, Great Britain, Holland, Iran, Italy, Romania, Sweden, Switzerland, USSR, Yugoslavia.

Distribution: Piemonte, Trentino Alto Adige, Toscana, Abruzzo, Lucania.

Note: A rare and local species from 1000 to 1400 m. VERITY (1904) reports as common this species at sea level in Toscana, which seems to be erroneous.

Flight: VI, VII.

71 *P. baptoactylus* (ZELLER, 1850)

Range: France, Italy, Spain, Yugoslavia.

Distribution: Umbria, Lazio, Puglia, Sardegna.

Note: An uncommon species bound to maquis, from the coast to 1200 m.

Flight: V to VIII.

72 *P. olbiadactylus* (MILLIÈRE, 1859)

Range: Canary Islands, Cyprus, France, Jordan, Greece, Iran, Israel, Italy, Morocco, Portugal, Spain.

Distribution: Lucania, Sicilia, Sardegna.

Note: A rare and local species in arid environments.

Flight: V, VI, VII.

Adaina TUTT, 1905

73 *A. microdactyla* (HÜBNER, 1813)

Range: Asia, Austria, Belgium, Bulgaria, Czechoslovakia, Denmark, Finland, France, Germany, Holland, Hungary, Iran, Italy, Japan, Romania, Spain, Switzerland, USSR, Yugoslavia.

Distribution: Piemonte, Lombardia, Veneto, Trentino Alto Adige, Toscana, Emilia Romagna, Lazio, Abruzzo, Campania, Lucania.

Note: Common and widespread in humid and grassy hilly places.

Flight: V to VIII.

Leioptilus WALLENGREN, 1862

74 *L. scarodactylus* (HÜBNER, 1813)

Range: Austria, Bulgaria, Czechoslovakia, Denmark, Finland, France, Germany, Italy, Manchuria, Poland, Romania, Sweden.

Distribution: Lombardia, Trentino Alto Adige, Toscana (?).

Note: Earlier reports (CURÒ & TURATI, 1883; MARIANI, 1943) must be confirmed. HARTIG (1960) found this species in Trentino Alto Adige.

Flight: V, VI, VIII.

75 *L. distinctus* (HERRISCH-SCHÄFFER, 1855)

Range: Austria, Belgium, Czechoslovakia, Denmark, Finland, France, Holland, Italy, Norway, Sweden, Switzerland, USSR.

Distribution: Piemonte, Lazio.

Note: KLIMESCH (1963) reports this species from the Nat. Park of Gran Paradiso. There is also one specimen in coll. ARENBERGER, Wien, from Lazio, Tivoli (DANNEHL leg.).

Flight: V, VII.

76 *L. osteodactylus* (ZELLER, 1841)

Range: Austria, Bulgaria, China, Czechoslovakia, Finland, France, Germany, Hungary, Italy, Japan, Norway, Poland, Sweden, Switzerland, USSR, Yugoslavia.

Distribution: Piemonte, Valle d'Aosta, Trentino Alto Adige, Venezia Giulia, Emilia Romagna, Toscana, Lazio, Abruzzo, Lucania, Sicilia.

Note: Common in the hills and mountains up to 1600 m in humid environments.

Flight: V, VII, VIII.

77 *L. carphodactylus* (HÜBNER, 1813)

Range: Albania, Algeria, Austria, Belgium, Bulgaria, Czechoslovakia, France, Germany, Great Britain, Hungary, Italy, Malta, Mauritania, Spain, Switzerland, Tunisia, USSR, Yugoslavia.

Distribution: Piemonte, Trentino Alto Adige, Lazio, Lucania, Sicilia.

Note: Local in the hills up to 1700 m in humid environments.

Flight: V, VI, VII.

78 *L. inulae* (ZELLER, 1852)

Range: Austria, Bulgaria, Canary Islands, Crete, Czechoslovakia, France, Germany, Greece, Hungary, Italy, Libya, Morocco, Poland, Portugal.

Distribution: Veneto, Lazio, Lucania, Puglia, Sicilia, Sardegna.

Note: Common from sea boards to the hills below 1000 m.

Flight: IV to XI.

79 *L. tephrodactyla* (HÜBNER, 1813)

Range: Austria, Belgium, Bulgaria, Czechoslovakia, Denmark, Eire, Finland, France, Germany, Great Britain, Holland, Hungary, Italy, Norway, Sweden, Switzerland.

Distribution: Piemonte, Valle d'Aosta, Lombardia, Trentino Alto Adige,

Veneto, Abruzzo.

Note: Local in mountainous districts. There are also dubious earlier data from low altitudes.

Flight: VII.

80 *L. lienigianus* (ZELLER, 1852)

Range: Africa, Burma, China, Europe, India, Japan, New Guinea, Sri Lanka.

Distribution: Piemonte, Veneto, Trentino Alto Adige, Emilia Romagna, Lazio, Umbria, Calabria.

Note: A rare and local species below 1000 m.

Flight: VI to IX.

Oidaematophorus WALLENGREN 1862

81 *O. lithodactylus* (TREITSCHKE, 1833)

Range: Asia Minor, Austria, Belgium, Bulgaria, Czechoslovakia, Denmark, Finland, France, Great Britain, Greece, Holland, Italy, Japan, Norway, Romania, Spain, Sweden, Switzerland, USSR, Yugoslavia.

Distribution: Piemonte, Trentino Alto Adige, Emilia Romagna, Lazio, Abruzzo, Lucania, Sicilia, Sardegna.

Note: Common and widespread from low lands to 1400 m.

Flight: VII, VIII.

82 *O. rogenhoferi* (MANN, 1871)

Range: Austria, France, Italy, Norway, Sweden, Switzerland.

Distribution: Trentino Alto Adige.

Note: The only reliable data are those from Trentino Alto Adige (HARTIG, 1960). The locality given by VERITY (1904) in Toscana must be confirmed.

Flight: VII to X.

83 *O. giganteus* (MANN, 1855)

Range: Asia Minor, France, Italy, Portugal.

Distribution: Liguria, Lazio, Sicilia, Sardegna.

Note: Very local but often abundant in maquis.

Flight: VI, VII, VIII.

Emmelinea TUTT, 1905

84 *E. monodactyla* (LINNÉ, 1758)

Range: N. Africa, N. America, Asia, Europe, Japan.

Distribution: Piemonte, Veneto, Liguria, Emilia Romagna, Toscana, Lazio, Abruzzo, Molise, Lucania, Puglia, Calabria, Sicilia, Sardegna.

Note: Very common and widespread from sea level to 1500 m.

Flight: All the year round.

85 *E. jezonica* (MATSUMARA, 1931)

Range: Austria, France, Germany, Italy, Japan, Manchuria, Pakistan, Poland.

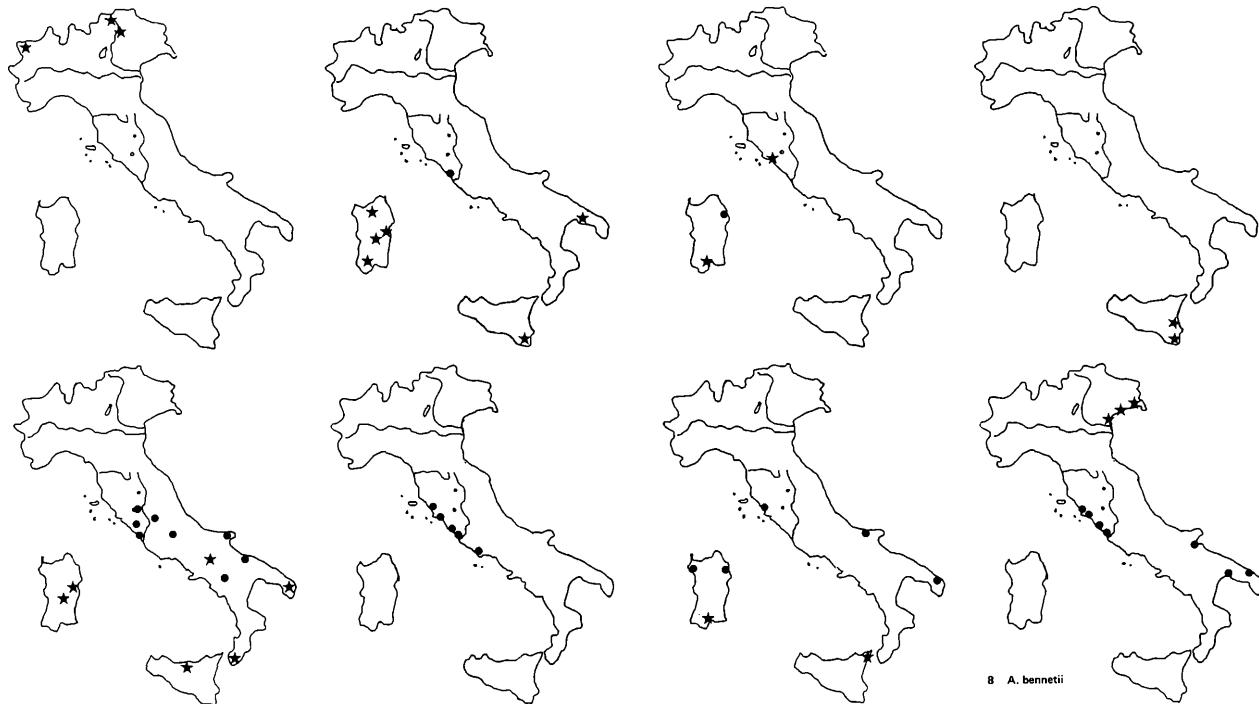
Distribution: Lazio.

Note: A new record from Italy. Common but very local in humid and marshy places.

Flight: VII, VIII, IX.

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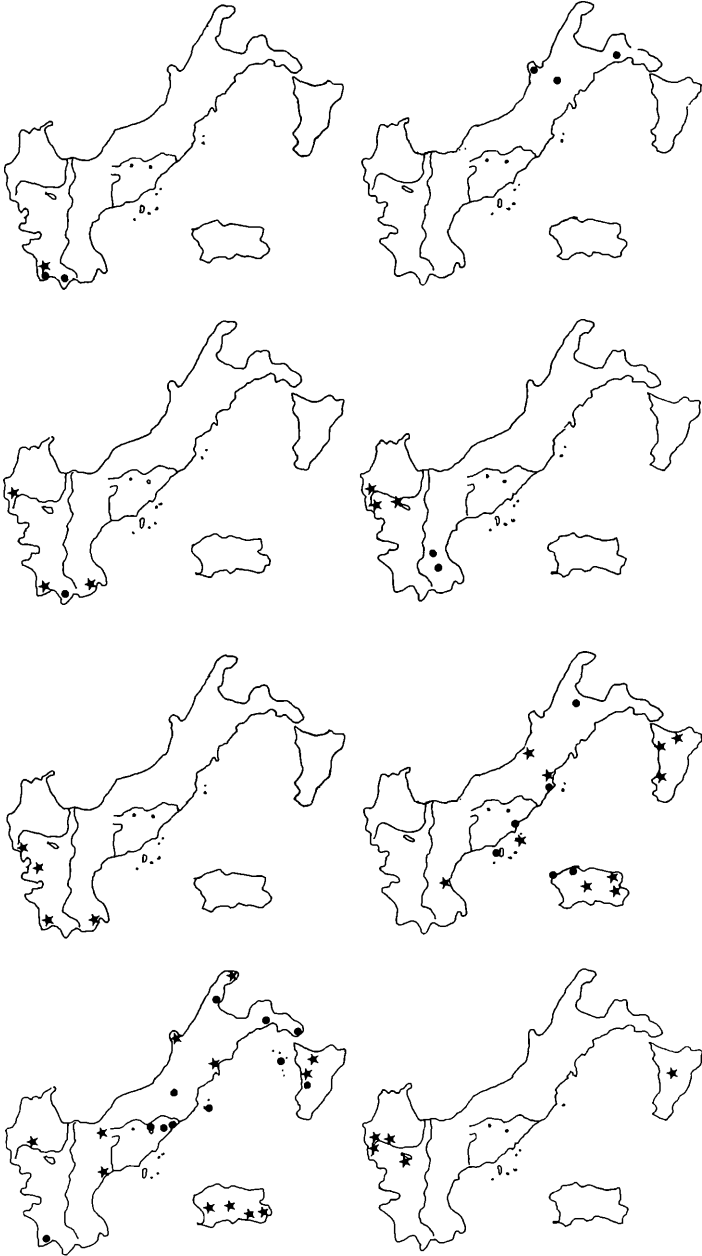






13 *O. chrysodactylus*









30 *M. lunaedactyla*



32 *C. rhododactylus*













54 *S. arida*



56 *P. malacodactylus*



59 *P. baliodactylus*



58 *P. fuscolumbatus*







66 *C. xerodactyla*





70 *P. heterodactylus*



P. baptoedactylus





74 *L. scarodactylus*







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