

Zygaenidae on stamps (Insecta: Lepidoptera)

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Abstract

An overview of the representatives of the family Zygaenidae on stamps is provided. Determinations and erroneous identifications are discussed.

Keywords: Insecta, Lepidoptera, Zygaenidae, Zygaeninae, Chalcosiinae, Procridinae, stamps, determinations, misidentifications.

Zygaenidae en los sellos (Insecta: Lepidoptera)

Resumen

Se ofrece una visión general de los representantes de la familia Zygaenidae en los sellos. Se discuten las determinaciones y las identificaciones erróneas.

Palabras clave: Insecta, Lepidoptera, Zygaenidae, Zygaeninae, Chalcosiinae, Procridinae, sellos, determinaciones, identificaciones erróneas.

Introduction

It may be surprising to learn that moths such as Zygaenidae (although most of them are small) have been a source of inspiration to artists, such as the seventeenth century Dutch painter Otto Van Schriek who depicted *Zygaena* in his painting (Efetov & Tarmann, 2008). Zygaenidae are rare in works of art, and similarly they are uncommon on postage stamps. A recent survey of over 14,000 legally issued Lepidoptera stamps worldwide (Nazari, 2021) found only 68 (0.5%) stamps issued by 49 countries that portrayed species of the family Zygaenidae.

Results and discussion

The family Zygaenidae with more than 1.200 species is divided into five subfamilies, viz. Inouelinae Efetov & Tarmann, 2017, Zygaeninae Latreille, 1809 (with the tribes Pryeriini and Zygaenini), Callizygaeninae Alberti, 1954, Chalcosiinae Walker, 1865 (with the tribes Chalcosiini, Cyclosiini, Agalopini, Aglaopini, and Heteropanini), and Procridinae Boisduval, 1828 (with the tribes Artonini and Procridini) (Can Cengiz et al. 2018; Efetov, 1996, 1997, 1998, 1999, 2001, 2005; Efetov et al. 2014, 2015, 2016; Efetov & Hayashi, 2008; Efetov & Tarmann, 2013, 2014, 2016, 2017; Hofmann & Tremewan, 1996, 2017; Yen, 2003; Yen et al. 2005).

The above-mentioned 68 stamps (Table 1) represent about 29 recognizable species of the family Zygaenidae and some other that are identifiable only at genus or family level. Zygaenidae on stamps belong only to three subfamilies, viz. Zygaeninae (42 stamps with Zygaenini), Chalcosiinae (23 stamps: 19 with Chalcosiini and 5 with Agalopini) and Procridinae (3 stamps: 2 with Procridini and 1 with Artonini).

Zygaeninae are represented by *Epizygaenella caschmirensis* (Kollar, 1844), *Zygaena tamara* Christoph, 1889, *Zygaena laeta* (Hübner, 1790), *Zygaena brizae vesubiana* Le Charles, 1933, *Zygaena rubicundus* (Hübner, 1817), *Zygaena purpuralis* (Brünnich, 1763), *Zygaena hilaris* Ochsenheimer, 1808, *Zygaena carniolica* (Scopoli, 1763), *Zygaena occitanica* (Villers, 1789), *Zygaena rhadamanthus* (Esper, 1789), *Zygaena osterodensis* Reiss, 1921, *Zygaena transalpina* (Esper, 1780), *Zygaena filipendulae* (Linnaeus, 1758), *Zygaena trifolii* (Esper, 1783) (Zygaenini).

Chalcosiinae are represented by *Amesia sanguiflua* (Drury, 1773), *Erasmia pulchella* Hope, 1840, *Eterusia repleta* Walker, 1864, *Eterusia aedea edocla* Doubleday, 1847, *Gynautocera papilionaria* Guérin-Méneville, 1831, *Psaphis euschemoides* (Moore, 1866) (Chalcosiini), *Elcysma westwoodii* (Snellen van Vollenhoven, 1863), *Campylotes desgodinsi* Oberthür, 1884), *Campylotes histrionicus* Westwood, 1839 (Agalopini).

Procridinae are represented by *Levuana iridescens* Bethune-Baker, 1906 (Artonini), *Adscita* sp., *Jordanita* sp. (Procridini).

Some countries have depicted Zygaenidae more than once, including São Tomé and Príncipe (5 times), Nepal (4 times), CAR, Gambia, and Maldives (3 times), and Belarus, Equatorial Guinea, Guinea-Bissau, Mozambique, Palau and Sierra Leone (twice). With 12 representations, *Zygaena filipendulae* is the most common species on stamps, followed by *Erasmia pulchella* (7), *Zygaena carniolica* (5), *Zygaena occitanica* (4), and *Amesia sanguiflua* (4). These species have all appeared in the stamps of more than one country. However, most species have appeared on stamps only once so far: *Epizygaenella* species (= *E. caschmirensis*, KAE ID) (Afghanistan 1971, figure 1), *Zygaena [brizae] vesubiana* (Monaco 1984, figure 2), *Z. laeta* (Tanzania 1996, figure 3), *Z. rhadamanthus* (Spain 2010, figure 4), *Z. rubicundus* (Italy 1996, figure 5), *Elcysma westwoodii* (Japan 1986, figure 6), *Eterusia aedea edocla* (Nepal 2014, figure 7), and the supposedly-extinct (Nazari et al. 2019) *Levuana iridescens* on the margin of a 2014 souvenir sheet from CAR (figure 8). In fact, 11 out of the 68 Zygaenidae are depicted not on the stamps themselves, but on the margins of souvenir sheets.

Some other notable species include *Zygaena occitanica* (figure 9), *Z. tamara* (figure 10), *Z. purpuralis* (figure 11), *Campylotes desgodinsi* (figure 12), *Amesia sanguiflua* (named as “*Erasmia sanguiflua*”) (figure 13), *Eterusia repleta* (figure 14) and *Gynautocera papilionaria* (figure 15).

The first philatelic Zygaenidae is a *Z. carniolica* that appeared on a full-color stamp issued by Switzerland in 1956 (figure 16). Even though the name of the moth is not given, the excellent depiction allows for a proper identification. The latest Zygaenidae to appear on a stamp so far is a *Zygaena filipendulae* on a 2022 Moldova stamp (not shown).

Many Zygaenidae stamps do not offer any identifying information for the depicted moths, be it their scientific or common names. Some provide only a common name, for example “Zigena de las escabiosas” for a *Zygaena osterodensis* on a 1975 Equatorial Guinea stamp (not shown), The “Widderchen” for a *Zygaena carniolica* on a 1984 Berlin stamp (not shown), or the 2014 Marshall Islands stamp depicting a stylized *Zygaena* with the caption “Leaf Skeletonizer” (figure 17). But even when scientific names are provided, misidentifications or misspellings are not uncommon. The worst example is an *Erasmia pulchella* (VN ID) on a 1976 Equatorial Guinea stamp (figure 18) that is labelled “*Chrysidia madagascariensis*” (!). Such misidentifications, however, are more often at genus or species levels. On two of the 2002 stamps issued by Gambia (not shown) where the moths are identified as *Zygaena carniolica*, one is a stylized *Zygaena hilaris* (KAE ID), and the other a stylized *Zygaena filipendulae* (Cosgrove ID). Similarly, the “BURNET MOTH [sic] *Adscita stictes*” on a 2002 stamp from Turks and Caicos Islands (figure 19) is in fact a *Jordanita* species (KAE ID). An example of misspelling is the *Psaphis euschemoides* on a 1997 Eritrea stamp, misspelled “*eusehemoides*” [sic] (figure 20).

The early stages of *Zygaena* are very rarely shown on stamps. Portugal in 2018 issued stamps of *Zygaena trifolii*, which also included its caterpillar (figure 21). Belarus (2016) depicted the caterpillar of *Zygaena filipendulae* on the frame of a souvenir block with five stamps showing the adults (figure 22).

Sometimes Zygaenidae appear as a secondary subject or as decorative elements on stamps. Among the series “Forest fruits” issued by Romania in 1964, the stamp depicting the Woodland strawberry (*Fragaria vesca* L.) includes a gray scale *Zygaena* moth hovering around the plant (figure 23). A 2002 Sierra Leone stamp (not shown) depicting a Rough-Fruited Cinquefoil *Potentilla* [sic] *recta* L. similarly has a moth resting on it.

Natural enemies of Zygaenidae have also made their way onto stamps. A *Zygaena* moth on a 2007 São Tomé and Príncipe stamp (figure 24) is shown being hunted by a spider. The Somali series “Carnivorous Plants” issued in 2000 (figure 25) includes a stamp with a *Drosera bulbosa* Hook (the red-leaved sundew) that has attracted what seems to be a *Zygaena transalpina* (KAE ID). Interestingly, while the plant is endemic to Western Australia, the moth is only found in Europe.

Acknowledgement

The research of the second author was supported financially by the RF Ministry of Science and Higher Education, Priority-2030 program N 075-15-2021-1323.

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(Recibido para publicación / *Received for publication* 16-XI-2022)
 (Revisado y aceptado / *Revised and accepted* 4-XII-2022)
 (Publicado / *Published* 30-VI-2023)

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Table 1. Zygaenidae stamps issued worldwide until September 2022.

Country	Year	ID verbatim	ID adjusted	Stamp number	Classification
1 Switzerland	1956	-	<i>Zygaena carniolica</i>	B258	Zygaeninae, Zygaenini
2 Taiwan	1958	[Chinese common name]	<i>Erasmia pulchella</i>	1186	Chalcosiinae, Chalcosiini
3 Romania	1964	-	<i>Zygaena</i> sp. (VN ID)	1703	Zygaeninae, Zygaenini
4 Lebanon	1965	<i>Erasmia sanguiflua</i>	<i>Amesia sanguiflua</i>	C434	Chalcosiinae, Chalcosiini
5 Hungary	1966	<i>Zygaena carniolica</i>	<i>Zygaena carniolica</i>	1730	Zygaeninae, Zygaenini
6 Sharjah	1967	-	<i>Adscita</i> sp. (stylized) (VN ID)	Mi: AE-SH 370A-372A	Procridinae, Procridini
7 Dubai	1968	<i>Erasmia pulchella</i>	<i>Erasmia pulchella</i>	Mi: DB 296	Chalcosiinae, Chalcosiini
8 Afghanistan	1971	<i>Epizygaenella</i> species	<i>Epizygaenella caschmirensis</i> (KAE ID)	844	Zygaeninae, Zygaenini
9 Ajman	1972	-	<i>Amesia sanguiflua</i>	Mi: AJ 2385A	Chalcosiinae, Chalcosiini
10 Liberia	1974	<i>Erasmia pulchella</i>	<i>Erasmia pulchella</i>	685	Chalcosiinae, Chalcosiini
11 Equatorial Guinea	1975	Zigena de las escabiosas	<i>Zygaena osterodensis</i>	74-256, Mi: GQ1168	Zygaeninae, Zygaenini
12 Equatorial Guinea	1976	<i>Chrysidia madagascariensis</i>	<i>Erasmia pulchella</i> (VN ID)	7702, Mi: GQ A1026	Chalcosiinae, Chalcosiini
13 North Vietnam	1976	<i>Gynautocera papilionaria</i> Guér.	<i>Gynautocera papilionaria</i>	800	Chalcosiinae, Chalcosiini
14 Germany, Berlin	1984	“Widderchen”	<i>Zygaena carniolica</i>	9NB210	Zygaeninae, Zygaenini
15 Monaco	1984	<i>Zygaena vesubiana</i>	<i>Zygaena brizae</i>	1427	Zygaeninae, Zygaenini
16 Japan	1986	<i>Elcysma westwoodii</i>	<i>Elcysma westwoodii</i>	1688	Chalcosiinae, Agalopini
17 São Tomé and Príncipe	1992	-	<i>Zygaena</i> sp. (VN ID)	1082	Zygaeninae, Zygaenini
18 Mongolia	1993	<i>Agrumaenia</i> [sic] <i>carniolica</i>	<i>Zygaena carniolica</i>	Mi: MN 2459	Zygaeninae, Zygaenini
19 Ireland	1994	-	<i>Zygaena</i> sp. (VN ID)	934a, 934b	Zygaeninae, Zygaenini
20 Alderney	1994	<i>Zygaena filipendulae</i>	<i>Zygaena filipendulae</i>	79	Zygaeninae, Zygaenini
21 Azerbaijan	1995	-	<i>Zygaena tamara</i> (stylized)	473a	Zygaeninae, Zygaenini
22 Pakistan	1995	Érasmie	<i>Erasmia pulchella</i>	843a	Chalcosiinae, Chalcosiini
23 Italy	1996	<i>Zygaena rubicundus</i>	<i>Zygaena rubicundus</i>	2097	Zygaeninae, Zygaenini
24 Tanzania	1996	<i>Zygaena laeta</i>	<i>Zygaena laeta</i>	1452	Zygaeninae, Zygaenini
25 Eritrea	1997	<i>Psaphis eusehemoides</i>	<i>Psaphis eusehemoides</i>	290a	Chalcosiinae, Chalcosiini
26 Nevis	1997	<i>Zygaena occitanica</i>	<i>Zygaena occitanica</i>	1014	Zygaeninae, Zygaenini
27 Congo Brazzaville	1999	<i>Campylotes desgodinsi</i>	<i>Campylotes desgodinsi</i>	CONGROVE # Z001d	Chalcosiinae, Agalopini
28 Georgia	1999	-	<i>Zygaena</i> sp. (stylized)	219	Zygaeninae, Zygaenini
29 Somalia	2000	-	<i>Zygaena transalpina</i> (KAE ID)	Mi: SO 853	Zygaeninae, Zygaenini
30 Gambia	2001	-	<i>Zygaena occitanica</i> (KAE ID)	2401	Zygaeninae, Zygaenini
31 Maldives	2001	<i>Campylotes desgodinsi</i>	<i>Campylotes desgodinsi</i>	Stampworld # 3864	Chalcosiinae, Agalopini
32 Maldives	2001	<i>Zygaena occitanica</i>	<i>Zygaena occitanica</i>	Stampworld # 3863	Zygaeninae, Zygaenini
33 Palau	2001	-	<i>Zygaena occitanica</i>	620	Zygaeninae, Zygaenini
34 Palau	2001	<i>Zygaena occitanica</i>	<i>Zygaena occitanica</i>	620d	Zygaeninae, Zygaenini
35 Saint Vincent & the Grenadines	2001	<i>Campylotes desgodinsi</i>	<i>Campylotes desgodinsi</i>	2998	Chalcosiinae, Agalopini

36	Sierra Leone	2001	-	<i>Zygaena</i> sp.	2487	Zygaeninae, Zygaenini
37	Gambia	2002	<i>Zygaena carniolica</i>	<i>Zygaena hilaris</i> (KAE ID)	2573e	Zygaeninae, Zygaenini
38	Gambia	2002	<i>Zygaena carniolica</i>	<i>Zygaena filipendulae</i> (stylized) (Cosgrove ID)	2572d	Zygaeninae, Zygaenini
39	Sierra Leone	2002	-	<i>Zygaena</i> sp. (VN ID)	2529	Zygaeninae, Zygaenini
40	Turks and Caicos Islands	2002	<i>Adscita statices</i>	<i>Jordanita</i> sp. (KAE ID)	1377b	Procridinae, Procridini
41	Iran	2003	<i>Zygaena</i> sp.	<i>Zygaena filipendulae</i>	Mi: IR 2917IIA	Zygaeninae, Zygaenini
42	Maldives	2004	<i>Amesia sanguiflua</i>	<i>Amesia sanguiflua</i>	2840b	Chalcosiinae, Chalcosiini
43	Guinea-Bissau	2005	-	<i>Zygaena tamara</i>	Yt: GW BF295	Zygaeninae, Zygaenini
44	Montserrat	2006	-	<i>Zygaena filipendulae</i>	1152	Zygaeninae, Zygaenini
45	São Tomé and Príncipe	2006	<i>Eterusia repleta</i>	<i>Eterusia repleta</i>	1603c	Chalcosiinae, Chalcosiini
46	São Tomé and Príncipe	2007	-	<i>Zygaena filipendulae</i>	1701d	Zygaeninae, Zygaenini
47	Denmark	2009	<i>Zygaena purpuralis</i>	<i>Zygaena purpuralis</i>	1432	Zygaeninae, Zygaenini
48	Spain	2010	<i>Zygaena rhadamanthus</i>	<i>Zygaena rhadamanthus</i>	3686	Zygaeninae, Zygaenini
49	Guinea-Bissau	2012	<i>Zygaena tamara</i>	<i>Zygaena tamara</i>	Mi: GW 6183	Zygaeninae, Zygaenini
50	Mozambique	2013	<i>Erasmia pulchella</i>	<i>Erasmia pulchella</i>	2940	Chalcosiinae, Chalcosiini
51	Mozambique	2013	<i>Erasmia sanguiflua</i>	<i>Amesia sanguiflua</i>	2910	Chalcosiinae, Chalcosiini
52	CAR	2014	<i>Levuana iridescens</i>	<i>Levuana iridescens</i>	Mi: CF BL1162	Procridinae, Artonini
53	Guinea	2014	<i>Zygaena filipendulae</i>	<i>Zygaena filipendulae</i>	Mi: GN 10674	Zygaeninae, Zygaenini
54	Marshall Islands	2014	Leaf Skeletonizer	<i>Zygaena</i> sp. (stylized)	1078f	Zygaeninae, Zygaenini
55	Nepal	2014	<i>Campylotes histrionicus</i>	<i>Campylotes histrionicus</i>	Mi: NP 1155	Chalcosiinae, Agalopini
56	Nepal	2014	<i>Erasmia pulchella</i>	<i>Erasmia pulchella</i>	Mi: NP 1158	Chalcosiinae, Chalcosiini
57	Nepal	2014	<i>Eterusia aedeae edocla</i>	<i>Eterusia aedeae edocla</i>	Mi: NP 1159	Chalcosiinae, Chalcosiini
58	Nepal	2014	<i>Gynautocera papilionaria</i>	<i>Gynautocera papilionaria</i>	Mi: NP 1161	Chalcosiinae, Chalcosiini
59	CAR	2015	<i>Zygaena filipendulae</i>	<i>Zygaena filipendulae</i>	Mi: CF BL1300	Zygaeninae, Zygaenini
60	Belarus	2016	<i>Zygaena filipendulae</i>	<i>Zygaena filipendulae</i>	1017	Zygaeninae, Zygaenini
61	Belarus	2016	<i>Zygaena filipendulae</i>	<i>Zygaena filipendulae</i> (+ caterpillar)	Mi: BY 1155KB	Zygaeninae, Zygaenini
62	CAR	2016	<i>Eterusia repleta</i>	<i>Eterusia repleta</i>	Mi: CF 6605-6608KB	Chalcosiinae, Chalcosiini
63	Chad	2017	<i>Zygaena carniolica</i>	<i>Zygaena carniolica</i>	Mi: TD 3226	Zygaeninae, Zygaenini
64	São Tomé and Príncipe	2017	<i>Eterusia repleta</i>	<i>Eterusia repleta</i>	Mi: ST 7225	Chalcosiinae, Chalcosiini
65	São Tomé and Príncipe	2017	<i>Zygaena filipendulae</i>	<i>Zygaena filipendulae</i>	Mi: ST 7040	Zygaeninae, Zygaenini
66	Portugal	2018	<i>Zygaena trifolii</i>	<i>Zygaena trifolii</i> (+ caterpillar)	Mi: PT L110	Zygaeninae, Zygaenini
67	Netherlands	2019	<i>Zygaena filipendulae</i>	<i>Zygaena filipendulae</i>	Mi: NL 3831	Zygaeninae, Zygaenini
68	Moldova	2022	<i>Zygaena filipendulae</i>	<i>Zygaena filipendulae</i>	Colnect MD 2022.07.29-04	Zygaeninae, Zygaenini









