

## Italian bee fauna: endemic species and subspecies

Endemismi italiani, con estensione alla Corsica (F) e a Malta (M)

	Genus Subgenus Species Subspecies	Records	Altitude (Italy) I = 0-800 II = 800-1600 III = 1600-2100 IV = > 2100
	<b>HYLAEUS Fabricius, 1793</b>		
1	<i>Hylaeus brevicornis sardous</i> Alfken, 1934 Ssp. <i>tirrenica</i>	Sicily, Sardinia	I, II
2	<i>Hylaeus hyalinatus montebovensis</i> (Pittioni, 1950) Ssp. <i>alpino-appenninica</i>	Piedmont, Lazio, Abruzzo	I, II
3	<i>Hylaeus hyalinatus subhyalinatus</i> (Pittioni, 1950) Ssp. <i>sardo-corsa</i>	Sardinia, Corsica (F)	I
4	<i>Hylaeus moniae</i> Nobile & Tomarchio, 1997 Sp. <i>sicula</i>	Sicily	I
	<b>COLLETES Latreille, 1802</b>		
5	<i>Colletes alpinus</i> Morawitz, 1872 Not synonymous with <i>C. impunctatus</i> Nyl. 1872 Sp. <i>alpina orientale</i>	Trentino-Alto Adige	Not assessed
6	<i>Colletes daviesanus siculus</i> Noskiewicz, 1959 Ssp. <i>sicula</i>	Sicily	Not assessed
7	<i>Colletes dimidiatus tyrrhenicus</i> Warncke, 1978 Ssp. <i>tirrenica</i>	Sardinia, Corsica (F)	I
8	<i>Colletes dimidiatus siciliensis</i> Noskiewicz, 1959 Ssp. <i>appennino-sicula</i>	Liguria, Emilia-Romagna, Tuscany, Campania, Apulia, Sicily	I
9	<i>Colletes wolffi</i> Kuhlmann, 1999 Sp. <i>italica</i>	Liguria, Piedmont, Central Apennines	Not assessed
	<b>PANURGUS Panzer, 1806</b>		
10	<i>Panurgus corsicus</i> Warncke, 1972 Sp. <i>sardo-corsa</i>	Sardinia, Corsica (F)	I
	<b>ANDRENA Fabricius, 1775</b>		
11	<i>Andrena agilissima italica</i> Warncke, 1968 Ssp. <i>appennino-tirrenica</i>	Abruzzo, Campania, Calabria, Sicily, Malta (M)	I
12	<i>Andrena carbonaria iliensis</i> Alfken, 1938 Ssp. <i>sardo-corsa</i>	Sardinia	I
13	<i>Andrena colletiformis sardinica</i> Strand, 1915 Ssp. <i>sardo-corsa</i>	Sardinia	I
14	<i>Andrena diomedea</i> Warncke, 1975 Sp. <i>tirrenica</i>	Sicily, Sardinia, Corsica (F)	I, II
15	<i>Andrena flavilabris</i> Schenck, 1874 Not considered first generation of <i>decipiens</i> Schenck Sp. <i>italica</i> ?	Latium, Sicily	I
16	<i>Andrena florea corsica</i> Warncke, 1975 Ssp. <i>sardo-corsa</i>	Sardinia, Corsica (F)	I
17	<i>Andrena iohannescaroli</i> Nobile, 2000 Sp. <i>sicula</i>	Sicily	I
18	<i>Andrena italiana</i> Pittioni, 1950 Uncertain: nomen nudum? Sp. <i>nord-italica</i>	Veneto	Not assessed
19	<i>Andrena livens gruenwaldti</i> Warncke, 1968 Ssp. <i>sicula</i>	Sicily	I
20	<i>Andrena nana taorminae</i> Strand, 1921	Sicily, Sardinia	I

	Ssp. tirrenica		
21	<i>Andrena numida syracusae</i> Strand, 1921 Ssp. sicula	Sicily, Isle of Pantelleria (Si)	I
22	<i>Andrena puella</i> Alfken, 1938 Sp. tirrenica	Sicily, Sardinia	I
23	<i>Andrena schmiedeknechti nigrorum</i> Warncke, 1967 Ssp. italica ?	Italy	Not assessed
24	<i>Andrena schulzi alba</i> Wancke, 1968 Ssp. appenninica	Campania	I
25	<i>Andrena siciliana</i> Warncke, 1980 Sp. sicula	Sicily	Not assessed
26	<i>Andrena vetula tyrrhena</i> Alfken, 1938 Ssp. sardo-corsa	Sardinia, Corsica (F)	I
<b>HALICTUS Latreille, 1804</b>			
27	<i>Halictus pseudotetrazonius</i> Strand, 1921 Sp. appennino-sicula	Campania, Sicily	I
28	<i>Halictus subauratus corsus</i> Blüthgen, 1933 Ssp. sardo-corsa	Sardinia, Isle of Caprera (Sa), Corsica (F)	I
<b>LASIOGLOSSUM Curtis, 1833</b>			
29	<i>Lasioglossum immunitum sillatum</i> (Warncke, 1982) Ssp. tirrenica	Calabria, Sicily, Sardinia	I
30	<i>Lasioglossum nitidiusculum pseudocombinatum</i> (Blüthgen, 1921) Ssp. sardo-corsa	Sardinia	I
31	<i>Lasioglossum nitidulum sardinium</i> Ebmer, 1978 Ssp. sardo-corsa	Sardinia, Isle of La Maddalena (Sa)	I, II
32	<i>Lasioglossum punctatissimum angustifrons</i> (Vachal, 1892) Ssp. sicula	Sicily	
<b>SPHECODES Latreille, 1804</b>			
33	<i>Sphecodes aetnensis</i> Nobile, 1995 Sp. sicula	Sicily	I
34	<i>Sphecodes annae</i> Campadelli & Nobile, 2000 Sp. italica	Tuscany	I
35	<i>Sphecodes banaszaki</i> Nobile & Turrisi, 2004 Sp. italica	Lazio	I
36	<i>Sphecodes campadellii</i> Nobile & Turrisi, 2004 Sp. italica	Emilia-Romagna	I
37	<i>Sphecodes combai</i> Nobile & Turrisi, 2004 Sp. italica	Latium	I
38	<i>Sphecodes josephi</i> Nobile & Turrisi, 2004 Sp. sicula	Sicily	II
39	<i>Sphecodes marcellinoi</i> Nobile & Turrisi, 2004 Sp. sicula	Sicily	III
40	<i>Sphecodes tomarchioi</i> Nobile & Turrisi, 2004 Sp. sicula	Sicily	II
41	<i>Sphecodes walteri</i> Nobile & Turrisi, 2004 Sp. sicula	Sicily	II
<b>ROPHITES Spinola, 1808</b>			
42	<i>Rophites epiroticus nebrodensis</i> Nobile, 1993 Ssp. sicula	Sicily	II
<b>LITHURGUS Latreille, 1825</b>			
43	<i>Lithurgus chrysurus sicalus</i> (Pérez, 1897) ssp. sicula	Sicily	I, II
<b>MEGACHILE Latreille, 1802</b>			
44	<i>Megachile albonotata italica</i> Tkalcù, 1988 Ssp. italica	Apennines (Abruzzo)	Not assessed

45	Megachile apennina (Benoist, 1940) Sp. appenninica	Central Apennines (Tuscany, Marche, Umbria, Abruzzo)	II
46	Megachile benoisti Tkalcu, 1977 Sp. italica	Puglia	Not assessed
47	Megachile circumcincta etnaensis Zanden, 1989 Ssp. sicula	Sicily	I, II
48	Megachile fulvescens Smith, 1853 Sp. sicula	Sicily	Not assessed
49	Megachile grisea (Fabricius, 1794) Sp. italica?	Mainland Italy	Not assessed
50	Megachile pugilla oria Costa, 1863 Sp. appenninica	Calabria	Not assessed
51	Megachile punctatissima Spinola, 1806 Sp. italica?	Liguria	I
52	Megachile sicula corsica Benoist, 1935 Ssp. sardo-corsa	Sardinia, Corsica (F)	I
<b>OSMIA Panzer, 1806</b>			
53	Osmia cerinthidis crassicypeata Peters, 1978 Ssp. sicula	Sicily	Not assessed
54	Osmia ferruginea igneopurpurea Costa, 1882 Ssp. tirrenica	Tuscany, Sardinia, Sicily, Isle of Lampedusa (Si)	I
55	Osmia picena Tkalcu, 1999 Sp. appenninica	Apennines (Marche and Umbria)	II, III
<b>PROTOSMIA DUCKE, 1900</b>			
56	Protosmia sicula (Dalla Torre & Friese 1895) uncertain= ? O. minuta De Stefani 1887 nec Bramson 1879 Sp. sicula	Sicily	Not assessed
<b>CHELOSTOMA Latreille, 1809</b>			
57	Chelostoma stefanii Nobile, 1995 = Chelostoma siciliae Mueller, 2012 Sp. sicula	Sicily	I, II
<b>HERIADES Spinola, 1808</b>			
58	Heriades sinuata Spinola, 1808 Uncertain Sp. italica	Liguria	Not assessed
<b>ANTHIDIUM Fabricius, 1804</b>			
59	Anthidium cingulatum rufispinum Costa, 1883 Ssp. tirrenica	Sardinia, Isle of Capraia (To), Sicily	I
<b>PSEUDOANTHIDIUM Friese, 1898</b>			
60	Pseudoanthidium gregoriense Nobile, 1989 change of rank of P. alpinum gregoriense Sp. sicula	Sicily	I
61	Pseudoanthidium leucostoma (Costa, 1883) change of rank of P. scapulare leucostoma Sp. sardo-corsa	Lazio, Sardinia, Isle of S. Antioco (Sa)	I
62	Pseudoanthidium scapulare peregrinum Costa, 1884 Sp. sardo-corsa	Sardinia, Corsica (F)	Not assessed
<b>ANTHOPHORA Latreille, 1803</b>			
63	Anthophora belieri Dours, 1869 Sp. sicula	Sicily	Not assessed
64	Anthophora laevigata Spinola, 1808 Sp. italica	Liguria	I
65	Anthophora nigrovittata Dours, 1869 Sp. sardo-corsa	Sardinia, Corsica (F)	I

66	<i>Anthophora pruinosa</i> Smith, 1854 <i>Sp. sicula</i>	Sicily, Isle of Mozia (Si), Isle of Marettimo (Si), Malta (M)	I
67	<i>Anthophora uniciliata</i> Sichel, 1860 uncertain: not recognized by Brooks, 1988: type missing <i>Sp. sicula</i> ?	Sicily	Not assessed
<b>MELECTA Latreille, 1802</b>			
68	<i>Melecta leucorhyncha taormina</i> Strand, 1919 <i>Ssp. tirrenico-italica</i>	Liguria, Emilia-Romagna, Tuscany, Marche, Latium, Abruzzo, Molise, Campania, Calabria, Puglia, Sicily, Sardinia, Corsica (F), Malta (M)	I, II
<b>THYREUS Panzer, 1806</b>			
69	<i>Thyreus plumatus</i> Meyer, 1921 uncertain: type missing <i>Sp. italica</i> ?	Italy	Not assessed
<b>EUCERA Scopoli, 1770</b>			
70	<i>Eucera brevicornis</i> Fabricius, 1789 uncertain <i>Sp. italica</i>	Italy	Not assessed
71	<i>Eucera deceptrix</i> Smith, 1879 uncertain <i>Sp. italica</i>	Italy	Not assessed
<b>TETRALONIELLA Ashmead, 1899</b>			
72	<i>Tetraloniella alticincta bindai</i> Nobile, 1993 <i>Ssp. sicula</i>	Sicily	I, II
73	<i>Tetraloniella dentata amseli</i> Alfken, 1938 <i>Ssp. sardo-corsa</i>	Sardinia	I
74	<i>Tetraloniella hyblaea</i> Nobile, 1993 <i>Sp. sicula</i>	Sicily	I
<b>NOMADA Scopoli, 1770</b>			
75	<i>Nomada baldiniana</i> Benzi, 1892 <i>Sp. appenninica</i>	Northern Apennines (Emilia-Romagna)	I
76	<i>Nomada fraudassicola</i> Pittioni, 1950 <i>Sp. italica</i>	Emilia-Romagna	I
77	<i>Nomada jacobaeae</i> Panzer, 1799 <i>Sp. italica</i>	Lombardy, Veneto, Sardinia, Isle of S. Antioco (Sa)	I
78	<i>Nomada nigroflavida</i> Gribodo 1894 <i>Sp. sicula</i>	Sicily	Not assessed
79	<i>Nomada rufoabdominalis</i> Schwarz, 1963 <i>Sp. italica</i>	Piedmont, Emilia-Romagna, Tuscany, Abruzzo, Calabria	I, II
80	<i>Nomada siciliensis</i> Dalla Torre & Friese, 1894 uncertain <i>Sp. sicula</i>	Sicily	I
81	<i>Nomada sicula</i> Schwarz, 1974 <i>Sp. sicula</i>	Sicily	I
<b>EPEOLUS Latreille, 1802</b>			
82	<i>Epeolus compar</i> Alfken, 1937 <i>Sp. sardo-corsa</i>	Sardinia	I
83	<i>Epeolus siculus</i> Giordani Soika, 1944 <i>Sp. sicula</i>	Sicily	I
<b>BOMBUS Latreille, 1802</b>			
84	<i>Bombus humilis appeninus</i> Vogt, 1909 Northern and Central Italy	Piedmont, Lombardy, Friuli-Venezia Giulia, Emilia-Romagna, Tuscany, Marche, Umbria, Lazio, Abruzzo, Calabria.	I, II, III
85	<i>Bombus humilis luteoaurantiacus</i> Reinig, 1970 <i>Ssp. centro-appenninica</i>	Abruzzo	II

86	<i>Bombus humilis propeaurantiacus</i> (Vogt, 1909) Central and Southern Italy	Lombardy, Trentino-Alto Adige, Tuscany, Marche, Umbria, Lazio, Abruzzo, Molise, Campania, Basilicata, Calabria, Puglia	I, II, III
87	<i>Bombus humilis rufoaurantiacus</i> Reinig, 1970 Central Apennines	Central Apennines	II
88	<i>Bombus lucorum arizoensis</i> Krueger, 1951 Ssp. sardo-corsa	Sardinia, ? Campania (very doubtful)	I
89	<i>Bombus monticola konradini</i> Reinig, 1965 Ssp. appenninica	Apennines of Emilia-Romagna, Tuscany, Marche, Umbria, Lazio, Abruzzo	I, II, III
90	<i>Bombus pascuorum melleofacies</i> Vogt, 1909 Ssp. italica	Piedmont, Liguria, Lombardy, Veneto, Trentino-Alto Adige, Friuli-Venezia Giulia, Emilia-Romagna, Tuscany, Marche, Umbria, Lazio, Abruzzo, Molise, Campania, Basilicata, Calabria, Puglia, Sicily, Elba (To), ?Sardinia	I, II, III
91	<i>Bombus pascuorum siciliensis</i> Tkalcu, 1977 Ssp. sicula	Sicily	I, II
92	<i>Bombus perezi</i> (Schulth.-Rechberg, 1886) Sp. sardo-corsa	Elba (To), Corsica (F)	I
93	<i>Bombus ruderatus atrocorbiculosus</i> Vogt, 1909 Ssp. italica	Veneto, Emilia-Romagna, Tuscany, Marche, Umbria, Lazio, Abruzzo, Campania, Basilicata, Calabria, Puglia, Sicily	I, II, III
94	<i>Bombus ruderatus sardiniensis</i> Tournier, 1890 Ssp. sardo-corsa	Sardinia, ? Tuscan Archipelago, Corsica (F)	I
95	<i>Bombus ruderatus siculus</i> Friese, 1909 Ssp. sicula	Sicily	I
96	<i>Bombus rupestris siculus</i> (Reinig, 1931) Central and Southern Italy, Sicily	Marche, Abruzzo, Molise, Campania, Basilicata, Calabria, Sicily	I, II, III, IV
97	<i>Bombus sylvorum rogenhofferi</i> Dalla Torre, 1882 Ssp. Italica (except Sardinia)	Piedmont, Emilia-Romagna, Marche, Basilicata, Calabria, Sicily	I, II
98	<i>Bombus terrestris calabricus</i> Krueger, 1958 Southern Italy, Sicily	Lazio, Abruzzo, Molise, Basilicata, Calabria, Puglia, Sicily	I, II, III
99	<i>Bombus terrestris sassaricus</i> Tournier, 1890 Ssp. sardo-corsa	Sardinia, Isle of Caprera (Sa), Isle of Asinara (Sa), Isle of Tavolara (Sa), Isle of S. Pietro (Sa), Isle of S. Antioco (Sa), Corsica (F). Introduced in Spain.	I, II
100	<i>Bombus terrestris xanthopus</i> Kriechbaumer, 1870 Ssp. sardo-corsa	Elba (To), Isle of Capraia (To), Isle of Montecristo (To), Corsica (F). Introduced in Spain.	I, II
101	<i>Bombus vestalis sorgonis</i> Strand, 1917 Ssp. sardo-corsa	Sardinia	I