New Distributional Data of Butterflies in the Middle of the Mediterranean Basin: An Area Very Sensitive to Expected Climate Change

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Butterflies are known to be very sensitive to environmental changes. Species distribution is modified by climate warming with latitudinal and altitudinal range shifts, but also environmental perturbations modify abundance and species composition of communities. Changes can be detected and described when large datasets are available, but unfortunately only for few Mediterranean countries they were created. The butterfly fauna of the Mediterranean Basin is very sensitive to climate warming and there is an urgent need of large datasets to investigate and mitigate risks such as local extinctions or new pest outbreaks. The fauna of Calabria, the southernmost region of peninsular Italy, is composed also of European species having here their southern range. The aim of this dataset paper is to increase and update the knowledge of butterfly distribution in a region very sensitive to climate warming that can become an early-warning area.

1. Introduction

Large and updated datasets are fundamental tools for investigating the effects of climatic changes and environmental perturbations on biodiversity, mainly of sensitive taxa such as butterflies [1]. Butterflies are known to react to climate warming with latitudinal and altitudinal range shifts [2], but these changes are detectable only if distributional datasets are available. In Europe, some countries (Belgium, Finland, Germany, Ireland, The Netherlands, Sweden, Switzerland, and UK) adopted a standardized butterfly monitoring scheme from several years [3], but in the Mediterranean areas only the Catalan Butterfly Monitoring Scheme (http://www.catalanbms.org/) and the Suivi Temporel des Rhopalocères de France (http://vigienature.mnhn.fr/page/suivi-temporel-des-rhopaloceres-de-france) are working.

Models of species distribution in face of changes due to climate warming [4] are based on the actual distribution of species and future scenarios can be distorted when a model is based on few data. The southern range of the European distribution of butterflies is largely underinvestigated and only few data are available for southern Italy, an area with a fauna very sensitive to climate changes [5]. In order to detect changes, it is important to investigate the distribution of both common and rare species, but bibliographic sources only rarely provide punctual and useful data of the former causing an important lack of information. Many data can be collected within private and public collections. This is an expensive procedure, but interesting data can be obtained on the past distribution of common species.

In Italy, the first attempt toward a knowledge of the distribution of the fauna at a national scale is represented by the Checklist of the Italian Fauna [6], with the distribution of species only generalized to large areas (North, South, Sardinia, and Sicily). Successively, the project CKmap supported the mapping of 10,000 species of animals at a national level in a UTM grid square [7]. Among them, the distribution of all butterflies species known for Italy was mapped and the localities georeferenced [8]. These localities were obtained from private and public collections, from private datasets, and from bibliographic resources, but very few were collected in the southern regions, where large territories are not explored.
2. Methodology

In this dataset paper, all unpublished records of butterflies of the author are reported. Data were collected during the years 2005–2012, mainly in the Cosenza Province, covering all the seasons of butterflies’ activity. Species are named according to the online database of the European Fauna (http://www.faunaeur.org/).

The localities were individuated by two toponyms: the first is the most precise and the second is the most easily recognizable on maps. Latitude and longitude were provided for all localities and grouped in territorial units with similar ecological, geomorphological, and biogeographic features in order to facilitate the individuation of areas that need further investigations. The territorial units individuated are nine [1]: Pollino-Orsomarso Mountains, Catena Costiera Mountains, Sila Mountains, Marchesato Area, Serre Mountains, Aspromonte Mountains, Crati Valley, Tyrrhenian Coast, and Ionian Coast (Figure 1). Data of localities are summarized in Table 1. Species lists were compiled as shown in Dataset Items 1, 2, 3, 4, and 5 (Tables).

3. Dataset Description

The dataset associated with this Dataset Paper consists of 5 items which are described as follows.

Dataset Item 1 (Table). Species list for the different localities of the Pollino-Orsomarso Mountains. Data presented in this table were based on the presence (1) or absence (0) of a butterfly species.

| Column 1: Family | Column 2: Species | Column 3: Bosco Pollinello | Column 4: Campo Tenese | Column 5: Castrovillari | Column 6: Civita | Column 7: Cozzo del Pellegrino | Column 8: Fagosa | Column 9: Fiume Argentino | Column 10: La Calvia | Column 11: Monte Moschereto | Column 12: Monte Palanuda | Column 13: Monte Pollino | Column 14: Orsomarso | Column 15: Piani del Pollino | Column 16: Papasidero | Column 17: Petrosa | Column 18: Serra del Prete | Column 19: Serra Dolcedorme | Column 20: Timpa San Lorenzo |

Dataset Item 2 (Table). Species list for the different localities of the Catena Costiera Mountains. Data presented in this table were based on the presence (1) or absence (0) of a butterfly species.

| Column 1: Family | Column 2: Species | Column 3: Acquafredda |
| Locality | Municipality (or nearest locality) | Administrative Province | Territorial Unit | Altitude (m a.s.l.) | Latitude | Longitude |
|----------|-----------------------------------|--------------------------|------------------|---------------------|----------|-----------|
| Cittanova | Cittanova                         | Reggio Calabria          | Aspromonte Mountains | 485                | 38°20'50"N | 16°05'23"E |
| Monte Ulis  | Cardeto                           | Reggio Calabria          | Aspromonte Mountains | 1045               | 38°05'39"N | 15°45'21"E |
| Torrente Menta  | Roccaforte del Greco         | Reggio Calabria          | Aspromonte Mountains | 1400               | 38°07'13"N | 15°54'24"E |
| Acquafredda | Aiello Calabro                    | Cosenza                  | Catena Costiera Mountains | 800               | 39°06'44"N | 16°11'21"E |
| Carolei     | Carolei                           | Cosenza                  | Catena Costiera Mountains | 480               | 39°14'43"N | 16°13'22"E |
| Caselle     | Lago                              | Cosenza                  | Catena Costiera Mountains | 800               | 39°12'20"N | 16°08'40"E |
| Contrada Manche  | Grimaldi                      | Cosenza                  | Catena Costiera Mountains | 625               | 39°07'54"N | 16°13'21"E |
| Cozzo Caselle | Lago                            | Cosenza                  | Catena Costiera Mountains | 1080              | 39°12'57"N | 16°05'11"E |
| Cozzo Cervello | Fuscaldol                      | Cosenza                  | Catena Costiera Mountains | 1200              | 39°24'00"N | 16°04'03"E |
| Cozzo di Monte  | Marano Principato              | Cosenza                  | Catena Costiera Mountains | 530               | 39°17'31"N | 16°10'19"E |
| Fiume Jassa  | Laurignano                        | Cosenza                  | Catena Costiera Mountains | 300               | 39°16'38"N | 16°14'56"E |
| Fiume Licetto | Lago                            | Cosenza                  | Catena Costiera Mountains | 540               | 39°11'09"N | 16°08'31"E |
| Fontana del Conte | Lago                         | Cosenza                  | Catena Costiera Mountains | 985               | 39°10'48"N | 16°11'33"E |
| Giardini del Signore  | Aiello Calabro              | Cosenza                  | Catena Costiera Mountains | 150               | 39°06'35"N | 16°07'17"E |
| Jassa       | Malito                            | Cosenza                  | Catena Costiera Mountains | 780               | 39°10'36"N | 16°15'53"E |
| Laurignano  | Laurignano                        | Cosenza                  | Catena Costiera Mountains | 400               | 39°16'39"N | 16°14'55"E |
| Mendicino   | Mendicino                         | Cosenza                  | Catena Costiera Mountains | 460               | 39°15'38"N | 16°11'31"E |
| Monte Cocuzzo | Mendicino                      | Cosenza                  | Catena Costiera Mountains | 1540              | 39°13'06"N | 16°07'50"E |
| Monte Serratore  | Malito                        | Cosenza                  | Catena Costiera Mountains | 1190              | 39°11'19"N | 16°14'00"E |
| Passo Crocetta | San Fili                     | Cosenza                  | Catena Costiera Mountains | 1000              | 39°19'17"N | 16°06'44"E |
| Passo dello Scalone | Belvedere Maritimo  | Cosenza                  | Catena Costiera Mountains | 740               | 39°37'48"N | 15°56'25"E |
| Petrarizzo  | Lago                              | Cosenza                  | Catena Costiera Mountains | 320               | 39°09'31"N | 16°08'13"E |
| Ponte Nuovo | Belsito                           | Cosenza                  | Catena Costiera Mountains | 270               | 39°09'18"N | 16°17'38"E |
| Potame      | Domanico                          | Cosenza                  | Catena Costiera Mountains | 1000              | 39°11'04"N | 16°11'48"E |
| Pucchiello  | Lago                              | Cosenza                  | Catena Costiera Mountains | 810               | 39°10'21"N | 16°10'02"E |
| Rancilla    | Grimaldi                          | Cosenza                  | Catena Costiera Mountains | 590               | 39°07'07"N | 16°13'14"E |
| San Fili    | San Fili                          | Cosenza                  | Catena Costiera Mountains | 560               | 39°20'11"N | 16°08'15"E |
| Scannelle   | Malito                            | Cosenza                  | Catena Costiera Mountains | 890               | 39°10'24"N | 16°15'27"E |
| Tessano     | Dipignano                         | Cosenza                  | Catena Costiera Mountains | 630               | 39°15'21"N | 16°14'30"E |
| Torrente Brittone  | Malito                        | Cosenza                  | Catena Costiera Mountains | 700               | 39°09'52"N | 16°14'58"E |
| Arcavacata  | Rende                             | Cosenza                  | Crati Valley        | 200                | 39°21'30"N | 16°13'41"E |
| Contrada Salerno  | Montalto Ufugo                  | Cosenza                  | Crati Valley        | 230                | 39°23'10"N | 16°13'47"E |
| Cosenza     | Cosenza                           | Cosenza                  | Crati Valley        | 250                | 39°17'27"N | 16°15'22"E |
| Fiera di San Vito  | Luzzi                         | Cosenza                  | Crati Valley        | 110                | 39°26'29"N | 16°15'05"E |
| Lago di Tarsia | Tarsia                        | Cosenza                  | Crati Valley        | 60                 | 39°36'45"N | 16°18'24"E |
| Terranova da Sibari  | Terranova da Sibari        | Cosenza                  | Crati Valley        | 140                | 39°41'09"N | 16°21'11"E |
| Brancalone Marina  | Brancalone Marina             | Reggio Calabria          | Ionian Coast        | 2                  | 37°58'10"N | 16°06'23"E |
| Capo Colonna | Crotona                           | Crotona                  | Ionian Coast        | 15                 | 39°01'33"N | 17°12'09"E |
| Cariati     | Cariati                           | Cosenza                  | Ionian Coast        | 30                 | 39°29'58"N | 16°56'35"E |
| Casino Feraudo  | Terranova da Sibari         | Cosenza                  | Ionian Coast        | 70                 | 39°40'17"N | 16°24'17"E |
| Caulonia    | Caulonia                          | Reggio Calabria          | Ionian Coast        | 110                | 38°23'50"N | 16°24'55"E |
| Copanello   | Stalleti                          | Catanzaro                | Ionian Coast        | 40                 | 38°45'50"N | 16°34'06"E |
| Locality                        | Municipality | Administrative Province | Territorial Unit            | Altitude (m a.s.l.) | Latitude  | Longitude |
|--------------------------------|--------------|-------------------------|----------------------------|----------------------|-----------|-----------|
| Fiumara Tronto                 | Crosia       | Cosenza                 | Ionian Coast               | 90                   | 39°33'09"N | 16°45'31"E |
| Gagliano                       | Catanzaro    | Catanzaro               | Ionian Coast               | 370                  | 38°55'18"N | 16°33'21"E |
| Gattarella                     | Staletti     | Catanzaro               | Ionian Coast               | 120                  | 38°45'36"N | 16°33'54"E |
| Macchia della Bura             | Crosia       | Cosenza                 | Ionian Coast               | 3                    | 39°36'01"N | 16°47'49"E |
| Mirta                          | Crosia       | Cosenza                 | Ionian Coast               | 5                    | 39°37'04"N | 16°46'14"E |
| San Niccola                    | Caulonia     | Reggio Calabria         | Ionian Coast               | 150                  | 38°22'55"N | 16°24'53"E |
| Santa Maria del Mare Vetere    | Staletti     | Catanzaro               | Ionian Coast               | 190                  | 38°45'23"N | 16°33'46"E |
| Squillace                      | Squillace    | Catanzaro               | Ionian Coast               | 100                  | 38°06'00"N | 15°45'30"E |
| Staletti                       | Staletti     | Catanzaro               | Ionian Coast               | 360                  | 38°46'01"N | 16°32'11"E |
| Strange                        | Calopezzati  | Cosenza                 | Ionian Coast               | 65                   | 39°33'35"N | 16°45'02"E |
| Altiglia                       | Altiglia     | Crotone                 | Marchesato Area            | 350                  | 39°10'47"N | 16°52'57"E |
| Cerenzia                       | Cerenzia     | Crotone                 | Marchesato Area            | 630                  | 39°14'42"N | 16°47'13"E |
| Grave Grubbo                   | Verzino      | Crotone                 | Marchesato Area            | 310                  | 39°15'41"N | 16°51'45"E |
| Presso Grotta del Palombaro    | Caccuri      | Crotone                 | Marchesato Area            | 115                  | 39°14'36"N | 16°50'30"E |
| San Mauro Marchesato           | San Mauro    | Crotone                 | Marchesato Area            | 280                  | 39°06'05"N | 16°55'22"E |
| Santa Severina                 | Santa Severina| Crotone              | Marchesato Area            | 285                  | 39°08'48"N | 16°54'49"E |
| Scandale                       | Scandale     | Crotone                 | Marchesato Area            | 280                  | 39°07'27"N | 16°57'14"E |
| Bosco Pollinello               | Castrovillari| Cosenza                 | Pollino-Orsomarso Mountains| 1800                | 39°53'50"N | 16°10'38"E |
| Campo Tenese                   | Morano Calabro| Cosenza           | Pollino-Orsomarso Mountains| 1000                | 39°52'07"N | 16°04'22"E |
| Castrovillari                  | Castrovillari| Cosenza                 | Pollino-Orsomarso Mountains| 330                 | 39°48'49"N | 16°12'35"E |
| Civita                         | Civita       | Civena                  | Pollino-Orsomarso Mountains| 400                 | 39°49'46"N | 16°18'50"E |
| Cozzo del Pellegrino           | Orsomarso    | Cosenza                 | Pollino-Orsomarso Mountains| 1850                | 39°44'34"N | 16°01'01"E |
| Fagosa                         | San Lorenzo  | Bellizzi                | Pollino-Orsomarso Mountains| 1600                | 39°53'38"N | 16°14'07"E |
| Fiume Argentino                | Orsomarso    | Cosenza                 | Pollino-Orsomarso Mountains| 180                 | 39°47'38"N | 15°55'56"E |
| La Calvia                      | San Donati di| Ninea                  | Pollino-Orsomarso Mountains| 1760                | 39°44'38"N | 16°01'46"E |
| Monte Moschereto               | Civita       | Cosenza                 | Pollino-Orsomarso Mountains| 750                 | 39°50'37"N | 16°18'29"E |
| Monte Palanuda                 | Orsomarso    | Cosenza                 | Pollino-Orsomarso Mountains| 1300                | 39°49'20"N | 15°39'25"E |
| Monte Pollino                  | Morano Calabro| Cosenza           | Pollino-Orsomarso Mountains| 2200                | 39°54'22"N | 16°11'13"E |
| Orsomarso                      | Orsomarso    | Cosenza                 | Pollino-Orsomarso Mountains| 120                 | 39°47'53"N | 15°54'40"E |
| Papasidero                     | Papasidero   | Cosenza                 | Pollino-Orsomarso Mountains| 190                 | 39°52'23"N | 15°54'38"E |
| Petrosa                        | Castrovillari| Cosenza                 | Pollino-Orsomarso Mountains| 770                 | 39°51'30"N | 16°13'20"E |
| Piani del Pollino              | Morano Calabro| Cosenza           | Pollino-Orsomarso Mountains| 1850                | 39°54'46"N | 16°12'37"E |
| Serra del Prete                | Morano Calabro| Cosenza           | Pollino-Orsomarso Mountains| 2100                | 39°54'51"N | 16°09'23"E |
| Serra Dolcedorme               | Castrovillari| Cosenza                 | Pollino-Orsomarso Mountains| 2267                | 39°53'39"N | 16°12'57"E |
| Timpa di San Lorenzo           | San Lorenzo  | Bellizzi                | Pollino-Orsomarso Mountains| 1200                | 39°55'02"N | 16°17'45"E |
| Campoli                        | Caulonia     | Reggio Calabria         | Serre Mountains            | 450                  | 38°26'39"N | 16°23'55"E |
| Iaci                           | Brognaturo   | Vibo Valentia           | Serre Mountains            | 1000                 | 38°34'59"N | 16°23'32"E |
| Nardodipace                    | Nardodipace  | Vibo Valentia           | Serre Mountains            | 1000                 | 38°37'47"N | 16°12'11"E |
| San Nicola da Crissa           | San Nicola da Crissa| Vibo Valentia      | Serre Mountains            | 400                  | 39°40'17"N | 16°16'58"E |
| San Todaro                     | Nardodipace  | Vibo Valentia           | Serre Mountains            | 700                  | 38°26'39"N | 16°22'12"E |
| Locality                        | Municipality (or nearest locality) | Administrative Province | Territorial Unit     | Altitude (m a.s.l.) | Latitude      | Longitude      |
|--------------------------------|------------------------------------|--------------------------|---------------------|---------------------|---------------|---------------|
| Serra San Bruno                | Serra San Bruno                    | Vibo Valentia            | Serre Mountains     | 850                 | 38°33'16" N  | 16°18'43" E  |
| Ursini                         | Caulonia                           | Reggio Calabria          | Serre Mountains     | 420                 | 38°24'49" N  | 16°24'04" E  |
| Acri                           | Acri                               | Cosenza                  | Sila Mountains      | 734                 | 39°29'50" N  | 16°22'02" E  |
| Bocca di Piazza                | Parenti                            | Cosenza                  | Sila Mountains      | 1250                | 39°09'44" N  | 16°28'46" E  |
| Cicciardi                      | Pedivigliano                       | Cosenza                  | Sila Mountains      | 680                 | 39°07'07" N  | 16°19'01" E  |
| Col di Vura                    | Rossano                            | Cosenza                  | Sila Mountains      | 1020                | 39°32'20" N  | 16°34'54" E  |
| Colle dei Lupi                 | Rogliano                           | Cosenza                  | Sila Mountains      | 1050                | 39°11'27" N  | 16°25'23" E  |
| Colle dell’Esca                | Longobucco                         | Cosenza                  | Sila Mountains      | 1630                | 39°25'09" N  | 16°36'03" E  |
| Confluenza Savuto-Bisirico     | Scigliano                          | Cosenza                  | Sila Mountains      | 180                 | 39°06'48" N  | 16°15'42" E  |
| Coraci                         | Colosimi                           | Cosenza                  | Sila Mountains      | 780                 | 39°06'53" N  | 16°22'01" E  |
| Cozzo del Pupatolo             | Longobucco                         | Cosenza                  | Sila Mountains      | 1550                | 39°25'16" N  | 16°35'22" E  |
| Cupone                         | Longobucco                         | Cosenza                  | Sila Mountains      | 1160                | 39°23'12" N  | 16°33'05" E  |
| Fovali                         | Parenti                            | Cosenza                  | Sila Mountains      | 1215                | 39°09'39" N  | 16°22'05" E  |
| Fossiata                       | Longobucco                         | Cosenza                  | Sila Mountains      | 1300                | 39°23'43" N  | 16°35'56" E  |
| Foiso Cuolo                    | Donnici Inferiore                  | Cosenza                  | Sila Mountains      | 550                 | 39°14'13" N  | 16°17'50" E  |
| Lago Ariamacina                | Camigliatello Silano               | Cosenza                  | Sila Mountains      | 1320                | 39°19'54" N  | 16°33'11" E  |
| Lago Arvo                      | Loricia                            | Cosenza                  | Sila Mountains      | 1290                | 39°14'54" N  | 16°31'56" E  |
| Lago Cecita                    | Camigliatello Silano               | Cosenza                  | Sila Mountains      | 1120                | 39°22'03" N  | 16°30'17" E  |
| Lago Savuto                    | Parenti                            | Cosenza                  | Sila Mountains      | 1160                | 39°30'40" N  | 16°29'19" E  |
| Macroscoli                     | Longobucco                         | Cosenza                  | Sila Mountains      | 1150                | 39°25'24" N  | 16°36'58" E  |
| Marzi                          | Marzi                              | Cosenza                  | Sila Mountains      | 570                 | 39°10'22" N  | 16°18'22" E  |
| Mascari                        | Colosimi                           | Cosenza                  | Sila Mountains      | 910                 | 39°06'50" N  | 16°24'09" E  |
| Mauritanella                   | Santo Stefano di Rogliano          | Cosenza                  | Sila Mountains      | 1000                | 39°11'37" N  | 16°22'54" E  |
| Monte Colonnina                | Caloveto                           | Cosenza                  | Sila Mountains      | 530                 | 39°29'52" N  | 16°44'50" E  |
| Monte Gabriele                 | Rogliano                           | Cosenza                  | Sila Mountains      | 750                 | 39°10'39" N  | 16°21'07" E  |
| Monte Scuro                    | Spezzano della Sila                | Cosenza                  | Sila Mountains      | 1620                | 39°20'06" N  | 16°23'56" E  |
| Morachi                        | Bianchi                            | Cosenza                  | Sila Mountains      | 790                 | 39°05'40" N  | 16°24'49" E  |
| Piano del Barone               | Acri                               | Cosenza                  | Sila Mountains      | 1100                | 39°27'47" N  | 16°28'32" E  |
| Pianoro di Macchialonga        | Spezzano della Sila                | Cosenza                  | Sila Mountains      | 1340                | 39°22'22" N  | 16°35'37" E  |
| Pietra di Pesco                | Rogliano                           | Cosenza                  | Sila Mountains      | 960                 | 39°10'56" N  | 16°22'08" E  |
| Pittarello                     | Pedivigliano                       | Cosenza                  | Sila Mountains      | 505                 | 39°06'29" N  | 16°17'53" E  |
| Ponte della Castagna           | Bianchi                            | Cosenza                  | Sila Mountains      | 740                 | 39°03'56" N  | 16°25'15" E  |
| Ponte della Tavolera           | Marzi                              | Cosenza                  | Sila Mountains      | 550                 | 39°10'06" N  | 16°22'94" E  |
| Saliano                        | Rogliano                           | Cosenza                  | Sila Mountains      | 935                 | 39°10'50" N  | 16°25'50" E  |
| San Leo                        | Parenti                            | Cosenza                  | Sila Mountains      | 730                 | 39°09'49" N  | 16°25'14" E  |
| Sant’Angelo                    | Panetteri                          | Cosenza                  | Sila Mountains      | 890                 | 39°04'02" N  | 16°27'14" E  |
| Serra Castagna Versante Sud    | Longobucco                         | Cosenza                  | Sila Mountains      | 1230                | 39°29'53" N  | 16°32'24" E  |
| Soveria Mannelli               | Soveria Mannelli                   | Catanzano                | Sila Mountains      | 900                 | 39°05'20" N  | 16°23'04" E  |
| Torrente Savuclia              | Carpanzano                         | Cosenza                  | Sila Mountains      | 590                 | 39°08'57" N  | 16°18'02" E  |
| Trenta                         | Trenta                             | Cosenza                  | Sila Mountains      | 400                 | 39°16'48" N  | 16°17'39" E  |
| Locality            | Municipality (or nearest locality) | Administrative Province | Territorial Unit       | Altitude (m a.s.l.) | Latitude   | Longitude |
|--------------------|------------------------------------|--------------------------|------------------------|---------------------|------------|-----------|
| Trenta Coste       | Acri                               | Cosenza                  | Sila Mountains         | 1000                | 39°29'18"N | 16°30'46"E |
| Valle Capra        | Spezzano della Sila                | Cosenza                  | Sila Mountains         | 1180                | 39°21'06"N | 16°29'20"E |
| Vallone Prunillo   | Bianchi                            | Cosenza                  | Sila Mountains         | 780                 | 39°03'50"N | 16°25'47"E |
| Amantea            | Amantea                            | Cosenza                  | Sila Mountains         | 2                   | 39°08'13"N | 16°04'03"E |
| Cessaniti          | Cessaniti                          | Vibo Valentia            | Tyrrenian Coast        | 350                 | 38°40'12"N | 15°52'45"E |
| Cittadella del Capo| Bonifati                            | Cosenza                  | Tyrrenian Coast        | 15                  | 39°33'11"N | 15°52'45"E |
| Fiume Abatemarco   | Verdicaro                          | Cosenza                  | Tyrrenian Coast        | 90                  | 39°44'59"N | 15°51'32"E |
| Foce Fiume Savuto  | Nocera Terinese                    | Catanzaro                | Tyrrenian Coast        | 2                   | 39°01'55"N | 16°06'00"E |
| Monte Pellegrino   | Amantea                            | Cosenza                  | Tyrrenian Coast        | 250                 | 39°06'12"N | 16°05'20"E |
| Paola              | Paola                              | Cosenza                  | Tyrrenian Coast        | 160                 | 39°21'57"N | 16°02'39"E |
| Praia a Mare       | Praia a Mare                       | Cosenza                  | Tyrrenian Coast        | 10                  | 39°53'11"N | 15°47'02"E |
| Sangineto          | Bonifati                            | Cosenza                  | Tyrrenian Coast        | 50                  | 39°34'49"N | 15°52'15"E |
| Tropea             | Tropea                             | Vibo Valentia            | Tyrrenian Coast        | 50                  | 38°40'37"N | 15°53'48"E |
| Valle Ruffa        | Spilinga                           | Vibo Valentia            | Tyrrenian Coast        | 300                 | 38°38'00"N | 15°54'08"E |
**Dataset Item 3 (Table).** Species list for the different localities of the Sila Mountains. Data presented in this table were based on the presence (1) or absence (0) of a butterfly species.

| Column 1: Family | Column 2: Species | Column 3: Acri |
|------------------|------------------|----------------|
| Column 4: Trenta Coste |
| Column 5: Valle Capra |
| Column 6: Vallone Prunillo |

**Dataset Item 4 (Table).** Species list for the different localities of the Tyrrenian Coast (Amantea, Cessaniti, Cittadella del Capo, Fiume Abatemarco, Foce Fiume Savuto, Monte Pellegrino, Paola, Praia a Mare, Sangineto, Valle Ruffa, and Tropea) and Ionian Coast (Brancaleone Marina, Capo Colonna, Cariati, Casino Feraudo, Caulonia, Copanello, Fiumara Trionto, Gagliano,Gattarella, Macchia della Bura, Mirto, San Nicola, Santa Maria del Mare Vetere, Squillace, Stalettì, and Strange). Data presented in this table were based on the presence (1) or absence (0) of a butterfly species.

| Column 1: Family | Column 2: Species | Column 3: Altilia |
|------------------|------------------|-----------------|
| Column 4: Presso Grotta del Palombo |
| Column 5: San Mauro Marchesato |
| Column 6: Santa Severina |
| Column 7: Scandale |
| Column 8: Strange |

**Dataset Item 5 (Table).** Species list for the different localities of Marchesato Area (Altilia, Cerenza, Presso Grotta del Palombo, San Mauro Marchesato, Santa Severina, Scandale, and Grave Grubbo), Crati Valley (Arcavacata, Contrada Salerni, Cosenza, Fiera di San Vito, Lago di Tarsia, and Terranova da Sibari), Serre Mountains (Campoli, Lacina, Nardopace, San Todaro, San Nicola da Crissa, Serra San Bruno, and Ursini), and Aspromonte Mountains (Cittanova, Monte Ulis, and Torrente Menta). Data presented in this table were based on the presence (1) or absence (0) of a butterfly species.

| Column 1: Family | Column 2: Species | Column 3: Altilja |
|------------------|------------------|-----------------|
| Column 4: Cerenza |
| Column 5: Presso Grotta del Palombo |
| Column 6: San Mauro Marchesato |
| Column 7: Santa Severina |
| Column 8: Scandale |
| Column 9: Grave Grubbo |
| Column 10: Arcavacata  | Column 11: Contrada Salerni  | Column 12: Cosenza  | Column 13: Fiera di San Vito  | Column 14: Lago di Tarsia  | Column 15: Terranova da Sibari  | Column 16: Campoli  | Column 17: Lacina  | Column 18: Nardodipace  | Column 19: San Todoraro  | Column 20: San Nicola da Crissa  | Column 21: Serra San Bruno  | Column 22: Ursini  | Column 23: Cittanova  | Column 24: Monte Ulis  | Column 25: Torrente Menta  |
|----------------------|-----------------------------|---------------------|-----------------------------|---------------------------|---------------------------------|---------------------|---------------------|-------------------------|-------------------------|---------------------------------|-----------------------------|---------------------|---------------------|---------------------|----------------------|

4. Concluding Remarks

This Dataset Paper strongly increases the knowledge on the butterfly fauna of Calabria, the southernmost region of the Italian Peninsula, composed of 135 species [10]. New distributional data for 116 species of butterflies are provided, the 86% of the whole regional fauna. The presence of species was recorded for 136 localities, for a total of 815 new distributional records. To date, the most data rich paper for this region provided 745 distributional records for 44 localities [9].

There is a heterogeneous distribution of sampled localities on the regional territory. In fact, Sila and Catena Costiera Mountains appear to be better sampled than others.

Dataset Availability

The dataset associated with this Dataset Paper is dedicated to the public domain using the CC0 waiver and is available at http://dx.doi.org/10.1155/2014/176471/dataset.

Disclosure

The data presented here were collected by the author during several field trips and during several research activities of the author from 2005 to 2012. The data are unpublished and represent an important implementation of the knowledge on the butterfly fauna of Italy.

Conflict of Interests

The author declares that there is no conflict of interests regarding the publication of this paper.

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