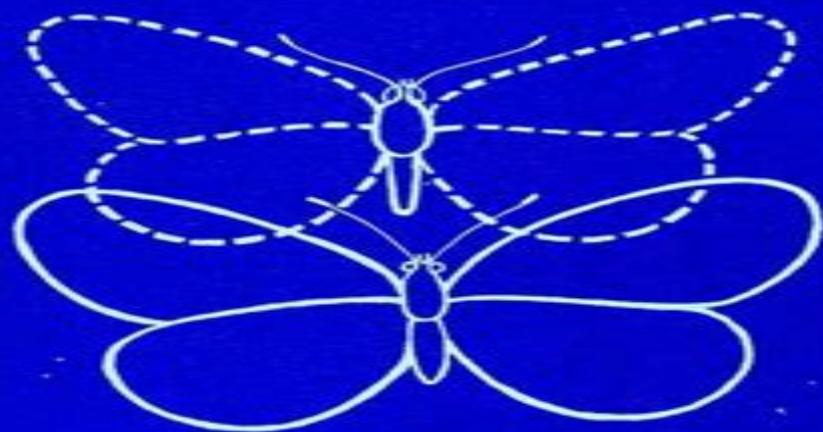


The Classification of  
**European  
Butterflies**



**L.G. HIGGINS**

with 700 line drawings by the author

# The Classification Of European Butterflies

**Lionel George Higgins**



## **The Classification Of European Butterflies:**

**The Classification of European Butterflies** Lionel George Higgins,1975      The Classification of European Butterflies  
Lionel George Higgins,1975      Climatic Risk Atlas of European Butterflies Josef Settele,2008 Climate change will cause Europe to lose much of its biodiversity as projected by a comprehensive study on future butterfly distribution The Climatic Risk Atlas of European Butterflies predicts northward shifts in potential distribution area of many European butterfly species As early warning indicators of environmental change butterflies are a valuable tool to assess overall climate change impact and to provide some indication on the chances to come nearer to the target of halting the loss of biodiversity by 2010 set by the EU Heads of State in 2001 The Climatic Risk Atlas of European Butterflies is based on the work of scores of scientists from across Europe They applied climate change models to data collected by tens of thousands of volunteers The authors say that some climate change is now inevitable and that the extent of the losses will depend on the degree of that change and how we respond to the new threat Butterflies have already suffered huge losses across Europe following decades of habitat loss and changing farming and forestry practices As temperatures rise majority of butterfly species will try to head north This won't always be achievable The forestry and farming changes mean that areas of suitable habitat are now often small and too far apart for butterflies to travel between them The worst case scenario scientists examined sees the average European temperature rise by 4.1 C by 2080 In that case over 95 per cent of the present land occupied by 70 different butterflies would become too warm for continued survival The best case scenario sees a 2.4 C temperature rise Even this would mean that 50 per cent of the land occupied by 147 different butterflies would become too warm for them to continue to exist there Many butterflies will largely disappear from where they are regularly seen now The Small Tortoiseshell will become absent from a huge swathe of middle and southern Europe and will become restricted to northern Europe Under the worst case scenario rare species like the Spanish Festoon *Zerynthia rumina* would experience a 97% loss from Spain and Southern France and the Apollo *Parnassius apollo* would suffer a 76% loss from mountainous areas Climate change is already having an impact on butterflies Over 60 mobile species with widespread food plants are known to have spread north in Europe over recent decades including the Comma *Polygonia c. album* which is spreading north in the UK at 10km per year Other species have moved further up mountains The chief author of Climatic Atlas of European Butterflies is Dr Josef Settele from the Helmholtz Centre for Environmental Research UFZ in Germany He said The Atlas shows for the first time how the majority of European butterflies might respond to climate change Most species will have to shift their distribution radically to keep pace with the changes The way butterflies change will indicate the possible response of many other insects which collectively comprise over two thirds of all species Dr Martin Warren Chairman of Butterfly Conservation Europe and one of the authors said Evidence points to an acceleration in climate change after 2050 unless there is a significant decrease in global CO2 emissions This accelerated change would be the final nail in the coffin for many European species We need to be ready for

this worst case scenario We need place more emphasis on maintaining large diverse populations on existing habitats while re connecting habitats to allow species to move across the landscape This means working closely with farmers and planners Dr Ladislav Miko Director of Nature Conservation at the EU Environment Directorate in Brussels said We strongly welcome this important study which helps us understand how species might respond to climate change The evidence points to a radical change in species distribution which we must plan for within future European policies The results show the enormous scientific value of records from thousands of volunteers across Europe Sebastian Winkler Head of Countdown 2010 stated The astounding outcomes of this study should remind world leaders once more that if immediate action is not taken the 2010 biodiversity target will not be reached and biological diversity will continue to decline The Climatic Risk Atlas of European Butterflies was written by researchers from across Europe under the EU Sixth Framework programme projects ALARM Assessing Large scale Environmental Risks for biodiversity with tested Methods [www.alarmproject.net](http://www.alarmproject.net) and MACIS Minimisation of and Adaptation to Climate change Impacts on biodiversity [www.macisproject.net](http://www.macisproject.net) Contacts Josef Settele Butterfly Conservation Europe Helmholtz Centre of Environmental Research UFZ Department of Community Ecology Tel xx 49 345 558 5320 Josef Settele ufz de Martin Warren Butterfly Conservation Europe Butterfly Conservation UK Tel xx 44 7775 590750 Dirk Maes Butterfly Conservation Europe Research Institute for Nature and Forest INBO xx 322 5581837 dirk.maes@inbo.be Tilo Arnhold Helmholtz Centre of Environmental Research UFZ PR Department Tel xx 49 341 235 1635 Tilo.Arnhold@ufz.de In cooperation with Pensoft Publishers

### **British and European Butterflies and Moths (Macrolepidoptera)**

August Wilhelm Kappel, William Egmont Kirby, H. Deuchert, 2022-10-27 This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work Scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public We appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant *Red Data*

*Book of European Butterflies (Rhopalocera)* Chris van Swaay, Martin Warren, Council of Europe, 1999-01-01 On title page Convention on the Conservation of European Wildlife Natural Habitats Bern Convention About endangered species **The Butterflies and Moths of Europe** William Forsell Kirby, 1907 **British & European Butterfly Vernacular Names Including Forms, Subspecies & Aberrations** William A. McCall, Gergely Tóth, 1997 **The Entomologist**, 1897 **The Entomologist's Record and Journal of Variation** James William Tutt, 1899 *Holarctic Lepidoptera*, 1998

**Foundations of Biogeography** Mark V. Lomolino, Dov F. Sax, James H. Brown, 2004-07 Foundations of Biogeography provides facsimile reprints of seventy two works that have proven fundamental to the development of the field From classics by Georges Louis LeClerc Comte de Buffon Alexander von Humboldt and Charles Darwin to equally seminal contributions

by Ernst Mayr Robert MacArthur and E O Wilson these papers and book excerpts not only reveal biogeography's historical roots but also trace its theoretical and empirical development Selected and introduced by leading biogeographers the articles cover a wide variety of taxonomic groups habitat types and geographic regions Foundations of Biogeography will be an ideal introduction to the field for beginning students and an essential reference for established scholars of biogeography ecology and evolution List of Contributors John C Briggs James H Brown Vicki A Funk Paul S Giller Nicholas J Gotelli Lawrence R Heaney Robert Hengeveld Christopher J Humphries Mark V Lomolino Alan A Myers Brett R Riddle Dov F Sax Geerat J Vermeij Robert J Whittaker

The Distribution Atlas of European Butterflies Otakar Kudrna,2002 In a very short time only about six years since the Mapping European Butterflies project was announced or some seven years since the preparations were started the results in the form of The Distribution Atlas of European Butterflies can now be presented to the public The database of the Atlas consists of 228 931 data records provided by 250 recorders from all over Europe or extracted from all the major national regional and private data banks The Atlas contains about 450 dot distribution maps of all the European butterflies For the first time ever a distribution atlas of European butterflies will be available and at the same time Europe will be the first continent ever to have all its butterfly species plotted on precise and comprehensive distribution maps Apart from providing significant species specific chronological data for taxonomists and biogeographers the prime purpose of the Atlas is to aid and promote the conservation of European butterflies The analysis and evaluation of the distribution data contained in the Atlas will facilitate the identification of priorities in selecting species and areas for European significance for conservation purposes Thus The Distribution Atlas of European Butterflies constitutes a major contribution towards the advancement of our knowledge of European butterflies

**The Naturalist** ,1889 *Class List of the Books in the Reference Library* Nottingham (England). Free Public Reference Library,1883 **Entomological News, and Proceedings of the Entomological Section of the Academy of Natural Sciences of Philadelphia** ,1897 Entomologist's Gazette ,2006 **Catalogue of the Books, Manuscripts, Maps and Drawings in the British Museum (Natural History) ...** British Museum (Natural History). Library,1904 British Journal of Entomology and Natural History ,1998 **Nature** ,1883 **Bibliography (Lepidoptera: Rhopalocera)** Charles A. Bridges,1988

## The Enigmatic Realm of **The Classification Of European Butterflies**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **The Classification Of European Butterflies** a literary masterpiece penned by a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those that partake in its reading experience.

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### **Table of Contents The Classification Of European Butterflies**

1. Understanding the eBook The Classification Of European Butterflies
  - The Rise of Digital Reading The Classification Of European Butterflies
  - Advantages of eBooks Over Traditional Books
2. Identifying The Classification Of European Butterflies
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an The Classification Of European Butterflies
  - User-Friendly Interface
4. Exploring eBook Recommendations from The Classification Of European Butterflies
  - Personalized Recommendations
  - The Classification Of European Butterflies User Reviews and Ratings
  - The Classification Of European Butterflies and Bestseller Lists

5. Accessing The Classification Of European Butterflies Free and Paid eBooks
  - The Classification Of European Butterflies Public Domain eBooks
  - The Classification Of European Butterflies eBook Subscription Services
  - The Classification Of European Butterflies Budget-Friendly Options
6. Navigating The Classification Of European Butterflies eBook Formats
  - ePub, PDF, MOBI, and More
  - The Classification Of European Butterflies Compatibility with Devices
  - The Classification Of European Butterflies Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of The Classification Of European Butterflies
  - Highlighting and Note-Taking The Classification Of European Butterflies
  - Interactive Elements The Classification Of European Butterflies
8. Staying Engaged with The Classification Of European Butterflies
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers The Classification Of European Butterflies
9. Balancing eBooks and Physical Books The Classification Of European Butterflies
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection The Classification Of European Butterflies
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine The Classification Of European Butterflies
  - Setting Reading Goals The Classification Of European Butterflies
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of The Classification Of European Butterflies
  - Fact-Checking eBook Content of The Classification Of European Butterflies
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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