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Autore	Herr Phillip
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Altri autori (Persone)	BlackburnTim M
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Nota di contenuto	Pattern and Process in Macroecology; Contents; Preface; 1 The Macroecological Perspective; 1.1 Introduction; 1.2 Scale and avian ecology; 1.3 A wider perspective; 1.4 The macroecological approach; 1.5 Testing macroecological hypotheses; 1.6 The avifauna of Britain and this book; 1.7 Organization of the book; 2 Species Richness; 2.1 Introduction; 2.1.1 Species richness at the smallest scales; 2.1.2 Species richness at larger scales; 2.1.3 Making sense of the numbers; 2.2 Size of area; 2.2.1 Why do larger areas contain more species?; 2.3 Isolation; 2.4 Local-regional richness relationships 2.5 Latitude2.5.1 Why oh why?; 2.5.2 Area again; 2.5.3 Energy; 2.5.4 Time hypotheses; 2.5.5 A 'primary cause'-holy grail or wild goose?; 2.6 Longitude; 2.7 Altitude; 2.8 Summary; 3 Range Size; 3.1 Introduction; 3.2 Species-range size distributions; 3.2.1 Range size measures; 3.2.2 Patterns in the distribution of range sizes; 3.3 Determinants of species-range size distributions; 3.3.1 Random sampling; 3.3.2 Range position; 3.3.3 Metapopulation dynamics; 3.3.4 Vagrancy; 3.3.5 Niches; 3.3.6

Speciation, extinction and temporal dynamics; 3.3.7 Synthesis; 3.4 Patterns of range overlap
3.4.1 Nestedness3.4.2 Turnover; 3.4.3 Rapoport's rule; 3.4.4 Implications of patterns in range overlap for Eastern Wood; 3.5 Summary; 4 Abundance; 4.1 Introduction; 4.2 Abundance-range size relationships; 4.2.1 The structure of abundance-range size relationships; 4.2.2 What generates abundance-range size relationships?; 4.2.3 Synthesis; 4.3 Species-abundance distributions; 4.3.1 Data; 4.3.2 Descriptive models; 4.3.3 Mechanistic models based on niche partitioning; 4.3.4 Other mechanistic approaches; 4.3.5 Synthesis: abundance, range size and their distributions; 4.4 Summary; 5 Body Size
5.1 Introduction5.2 The distribution of body sizes; 5.2.1 Body size measures; 5.2.2 Scale and the body mass distribution; 5.2.3 Discontinuities; 5.3 What determines the shape of species-body size distributions?; 5.3.1 The ultimate explanation-speciation and extinction rates; 5.3.2 Why is small body size favoured?; 5.3.3 Why do small- and large-scale body size distributions differ?; 5.4 Spatial variation in body mass; 5.4.1 What determines spatial variation in species body sizes?; 5.4.2 Bergmann's rule, species-body size distributions and abundance; 5.5 Abundance-body size relationships 5.5.1 What is the relationship between abundance and body size?5.5.2 Why do abundance-body size relationships show different forms?; 5.5.3 What generates abundance-body size relationships?; 5.5.4 Synthesis; 5.6 Summary; 6 Synthesis; 6.1 Introduction; 6.2 Knitting patterns; 6.2.1 Energy and biomass; 6.2.2 Population size and body mass; 6.2.3 Range size; 6.2.4 Density; 6.2.5 Species richness; 6.2.6 From macro to micro; 6.3 Eastern Wood revisited; 6.4 Human interference; 6.5 Final words; References; Appendices; I List of Common and Scientific Bird Names; II Eastern Wood Breeding Bird Data III British Bird Assemblage Data

Sommario/riassunto

Issues of scale have become increasingly important to ecologists. This book addresses the structure of regional (large-scale) ecological assemblages or communities, and the influence this has at a local (small-scale) level. This macroecological perspective is essential for the broader study of ecology because the structure and function of local communities cannot be properly understood without reference to the region in which they are situated. The book reviews and synthesizes the issues of current importance in macroecology, providing a balanced summary of the field that will be useful