# CONTENTS OF THE FIRST VOLUME.

# PART I.

THE PRINCIPLES AND GENERAL, PHENOMENA OF DISTRIBUTION.

## CHAPTER I.

INTRODUCTORY.

### CHAPTER II.

#### THE MEANS OF DISPERSAL AND THE MIGRATIONS OF ANIMALS.

Means of Dispersal of Mammalia (p. 10)—Climate as a Limit to the Range of Mammals (p. 11)—Valleys and Rivers as Barriers to Mammals (p. 12)—Arms of the Sea as Barriers to Mammals (p. 13)—Ice-floes and drift-wood as aiding the Dispersal of Mammals (p. 14)—Means of Dispersal of Birds (p. 15)—Dispersal of Birds by Winds (p. 16)—Barriers to the Dispersal of Birds (p. 17)—The Phenomena of Migration (p. 18)—Migrations of Birds (p. 19)—General remarks on Migration (p. 25)—Means of Dispersal of Reptiles and Amphibia (p. 28)—Means of Dispersal of Fishes (p. 29)—Means of Dispersal of Mollusca (p. 30)—Means of Dispersal of Insects and the Barriers which limit their Range (p. 32)

#### CHAPTER III.

DISTRIBUTION AS AFFECTED BY THE CONDITIONS AND CHANGES OF THE EARTH'S SURFACE.

Land and Water (p. 35)—Continental Areas (p. 36)—Recent Changes in the Continental Areas (p. 38)—The Glacial Epoch as affecting the Distribution of Animals (p. 40)—Changes of Vegetation as affecting the Distribution of Animals (p. 43)—Organic Changes as affecting Distribution (p. 44) . 35—49

# CHAPTER IV.

#### ON ZOOLOGICAL REGIONS.

### CHAPTER V.

# CLASSIFICATION AS AFFECTING THE STUDY OF GEOGRAPHICAL DISTRIBUTION.

# PART II.

# ON THE DISTRIBUTION OF EXTINCT ANIMALS.

## CHAPTER VI.

#### THE EXTINCT MAMMALIA OF THE OLD WORLD.

Historic and Post-pliocene Period (p. 110)—Pliocene Period (p. 112)—General Conclusions as to the Pliocene and Post-pliocene Faunas of Europe (p. 113)—Miocene Period (p. 114)—Extinct Animals of Greece (p. 115)—Miocene Fauna of Central and Western Europe (p. 117)—Upper Miocene Deposits of India (p. 121)—General Observations on the Miocene Faunas of Europe and Asia (p. 123)—Eocene Period (p. 124)—General Considerations on the Extinct Mammalian Fauna of Europe (p. 126)

### CHAPTER VII.

#### EXTINCT MAMMALIA OF THE NEW WORLD.

North America—Post-pliocene Period (p. 129)—Remarks on the Post-pliocene Fauna of North America (p. 130)—Tertiary Period (p. 132)—Primates (p. 32) Insectivora (p. 133)—Carnivora (p. 134)—Ungulata (p. 135)—Proboscidea (p.138)—Tillodontia (p.139)—Rodentia (p.140)—General Relations of the Extinct Tertiary Mammalia of North America and Europe (p.140)—South America (p. 143)—Fauna of the Brazilian Caves (p. 143)—Pliocene Period of Temperate South America (p. 146)—Pliocene Mammalia of the Antilles (p. 148)—Eocene Fauna of South America (p. 148)—General Remarks on the Extinct Mammalian Fauna of the Old and New Worlds (p. 148)—The Birth-place and Migrations of some Mammalian Families and Genera (p. 153) . 129—156

## CHAPTER VIII.

VARIOUS EXTINCT ANIMALS; -AND ON THE ANTIQUITY OF THE GENERA OF INSECTS AND LAND-MOLLUSCA.

Extinct Mammalia of Australia (p. 157)—Mammalian Remains of the Secondary Formations (p. 159)—Extinct Birds (p. 160)—Palæarctic Region and North India (p. 161)—North America (p. 163)—South America, Madagascar, New Zealand (p. 164)—Extinct Tertiary Reptiles (p. 165)—Antiquity of the Genera of Insects (p. 166)—Antiquity of the Genera of Land and Fresh-water Shells (p. 168)

# PART III.

ZOOLOGICAL GEOGRAPHY: A REVIEW OF THE CHIEF FORMS OF LIFE IN THE SEVERAL REGIONS AND SUB-REGIONS, WITH THE INDICA-TIONS THEY AFFORD OF GEOGRAPHICAL MUTATIONS.

# CHAPTER IX.

THE ORDER OF SUCCESSION OF THE REGIONS.—COSMOPOLITAN GROUPS OF ANIMALS.—TABLES OF DISTRIBUTION.

Order of succession of the Regions (p. 173)—Cosmopolitan Groups (p. 175)— Tables of Distributions of Families and Genera (p. 177) . . . 173—179

# CHAPTER X.

#### THE PALEARCTIC REGION.

Zoological Characteristics of the Palæarctic Begion (p. 181)—Summary of Palæarctic Vertebrata (p. 186)—Insects (p. 187)—Land-shells (p. 190)—The Palæarctic Sub-regions (p. 190)—Central and Northern Europe (p. 191)—North European Islands (p. 197)—Mediterranean Sub-region (p. 199)—The Mediterranean and Atlantic Islands (p. 206)—The Siberian Sub-region, or Northern Asia (p. 216)—Japan and North Chins, or the Manchurian Sub-region (p. 220)—Birds (p. 223)—Insects (p. 227)—Remarks on the General Character of the Fauna of Japan (p. 230)—General Conclusions as to the Fauna of the Palæarctic Region (p. 231)—Table I. Families of Animals inhabiting the Palæarctic Region (p. 234)—Table II. List of the Genera of Terrestrial Mammalia and Birds of the Palæarctic Region (p. 239)——181—250

## CHAPTER XI.

## THE ETHIOPIAN REGION.

Zoological Characteristics of the Ethiopian Region (p. 252)—Summary of Ethiopian Vertebrates (p. 255)—The Ethiopian Sub-regions (p. 258)—The East African Sub-region, or Central and East Africa (p. 258)—The West African Sub-region (p. 262)—Islands of the West African Sub-region (p. 265)—South African Sub-region (p. 266)—Atlantic Islands of the Ethiopian Region;—St. Helena (p. 269)—Tristan d'Acunha (p. 271)—Madagascar and the Mascarene Islands, or the Malagasy Sub-region (p. 272)—The Mascarene Islands (p. 280)—Extinct Fauna of the Mascarene Islands and Madagascar (p. 282)—General Remarks on the Insect Fauna of Madagascar (p. 284)—On the probable Past History of the Ethiopian Region (p. 285)—Table I. Families of Animals inhabiting the Ethiopian Region (p. 294)—Table II. List of Genera of Terrestrial Mammalia and Birds of the Ethiopian Region (p. 300) . 251—313

#### CHAPTER XII.

#### THE ORIENTAL REGION.

Zoological Characteristics of the Oriental Region (p. 315)—Summary of Oriental Vertebrata (p. 318)—The Oriental Sub-regions (p. 321)—Hindostan, or Indian Sub-region (p. 321)—Range of the Genera of Mammalia which inhabit the Sub-region of Hindostan (p. 322)—Oriental, Palæarctic, and Ethiopian Genera of Birds in Central India (p. 224)—Sub-region of Ceylon and South India (p. 326)—The Past History of Ceylon and South India, as indicated by its Fauna (p. 328)—Himalayan or Indo-Chinese Sub-region (p. 329)—Islands of the

Indo-Chinese Sub-region (p. 333)—Indo-Malaya, or the Malayan Sub-region (p. 334)—Malayan Insects (p. 341)—The Zoological Relations of the several Islands of the Indo-Malay Sub-region (p. 345)—Philippine Islands (p. 345)—Java (p. 349)—Malacca, Sumatra, and Borneo (p. 353)—Probable recent Geographical Changes in the Indo-Malay Islands (p. 357)—Probable Origin of the Malayan Fauna (p. 359)—Concluding Remarks on the Oriental Region (p. 362)—Table I. Families of Animals inhabiting the Oriental Region (p. 365)—Table II. Genera of Terrestrial Mammalia and Birds in the Oriental Region (p. 371)

## CHAPTER XIII.

#### THE AUSTRALIAN REGION.

General Zoological Characteristics of the Australian Region (p. 390)-Summary of the Australian Vertebrata (p. 397)-Supposed Land-connection between Australia and South America (p. 398) - Insects (p. 403) - Land shells (p. 407) -Australian Sub-regions (p. 408)-Austro-Malayan Sub-region (p. 409)-Papua, or the New Guinea Group (p. 409)-The Moluccas (p. 417)-Insects-Peculiarities of the Moluccan Fauna (p. 420)-Timor Group (p. 422)-Celebes Group (p. 426)-Origin of the Fauna of Celebes (p. 436)- Australia and Tasmania, or the Australian Sub-region (p. 438)-The Pacific Islands, or Polynesian Sub-region (p. 442)-Fiji, Tonga, and Samoa Islands (p. 443)-Society and Marquesas Islands (p. 443)-I.adrone and Caroline Islands (p. 444) -New Caledonia and the New Hebrides (p. 444) -Sandwich Islands (p. 445) -Reptiles of the Polynesian Sub-region (p. 448)-New Zealand Sub-region (p. 449)-Islets of the New Zealand Sub-region (p. 453)-Reptiles, Amphibia, and Fresh-water Fishes (p. 456)-Insects (p. 457)-The Ancient Fauna of New Zealand (p. 459)—The Origin of the New Zealand Fauna (p. 459)—Causes of the Poverty of Insect-life in New Zealand : its Influence on the Character of the Flora (p. 462)-Concluding Remarks on the Early History of the Australian Region (p. 464)-Table I. Families of Animals inhabiting the Australian Region (p. 468)-Table II. Genera of Terrestrial Mammalia and Birds of the Australian Region (p. 473)