THE ZOOLOGY AND BOTANY OF THE WEST INDIA ISLANDS.1

THIS Committee was appointed in 1887, and it has been

reappointed each year until the present time.

During the past year Mr. F. DuCane Godman, F.R.S., has continued to employ a collector in the island of St. Vincent, and owing to the valuable assistance thus afforded to the Committee it has been possible to complete the exploration of this island. The collections in zoology are very extensive, and those in botany extend to the whole of the phanerogams and the vascular cryptogams. No expense has been incurred by the Committee in regard to any of these collections in St. Vincent.

The services of Mr. R. V. Sherring, F. L. S., were accepted, as

mentioned in the last report, to make botanical collections in the island of Grenada. He left this country in October last, and returned after seven months' absence in June last. Mr. Sherring has forwarded to this country large collections, consisting for the most part of vascular cryptogams, and these are now in course of being determined at Kew. A detailed report on the various collections in zoology and botany received during the past year

is given below.

At the present time Mr. Herbert H. Smith, the collector employed by Mr. Godman, is making collections in zoology in the island of Grenada. This is the most southerly of the chain of islands intended to be explored by the Committee. When this island is completed, the Committee will have been engaged in investigating the fauna and flora of most of the islands in the Lesser Antilles lying between Martinique and Trinidad. The islands in which collections have so far been made consist of Dominica, St. Lucia, Barbados, St. Vincent, the Grenadines, and Grenada.

Zoology.—Since the last report collections have continued to be received from St. Vincent by Mr. Godman. The work of sorting and arranging these collections has been begun. The arthropods are already completed, and the larger part of the insects is mounted and prepared for despatch to the specialists

who have been engaged to work them out.

For this purpose the Committee have been so fortunate as to obtain the assistance of the following naturalists: Herr Hofrath Brunner von Wattenwyl for the Orthoptera; Prof. Riley for the Rhynchota; Mr. Howard for the parasitic Hymenoptera; Prof. S. W. Williston for the Diptera; Prof. Aug. Forel for the Ants; Lord Walsingham for Lepidoptera, part; F. D. Godman and O. Salvin for Lepidoptera, part; D. Sharp for Coleoptera; M. Simon for Spiders generally; Mr. G. W. Peckham for Attidæ. The Committee have undertaken to procure publication of the memoirs that may be received from these

A small collection of specimens made by Dr. H. A. Alford Nicholls, F. L. S., local secretary to the Committee in the island of Dominica, was received in May last. This consisted of nine of Dominica, was received in May last. This consisted of nine mammals, one lizard, one snake, five fishes, one Ascalaphus, welve Longicornia, two Passalidæ, and five Lamellicornia, Besides these Dr. Nicholls sent from the island of Tobago four of the peculiar nests of the yellow-tailed bird of that island (Cassicus cristatus). These birds usually build their nests depending from isolated branches of the silk-cotton tree (Eriodendron anfractuosum), and they look like huge fruits waving in

A small collection of Lepidoptera was received in November last from Captain Hellard, R.E., local secretary to the Committee in the island of St. Lucia. The mounted specimens in this collection arrived in bad order, owing to the pieces of camphor getting loose in the boxes and breaking the greater part of them, including almost the whole of the Sphingida.

Mr. John C. Wells, who has devoted attention to the ornithology of Grenada, has kindly consented to act as a local secretary

for that island.

Botany .- Of the botanical collections received from St. Vincent the vascular cryptogams have been determined by Mr. J. G. Baker, F.R.S., and an account of them, with two plates, printed in the Annals of Botany, vol. v. (April 1891) pp. 163-172. Amongst the ferns the most striking novelty is a new species of Asplenium, named A. Godmani, Baker (pl. xi.), found in damp forests at the extreme top of Morne à Garou. Other new species

¹ Fourth Report of the British Association Committee, consisting of Prof. Flower (Chairman), Mr. D. Morris (Secretary), Mr. Carruthers, Dr. Sclater, Mr. Thiselton-Dyer, Dr. Sharp, Mr. F. DuCane Godman, Prof. Newton, Dr. Günther, and Colonel Feilden, appointed for the purpose of reporting on the present state of our knowledge of the Zoology and Batany of the West India Islands, and taking steps to investigate ascertained deficiencies in the Faura and Flora. in the Fauna and Flora.

are Hymenophyllum vincentinum, Baker (pl. x.), and Acrostichum (Elaphoglossum) Smithii, Baker. The total number of vascular cryptogams found recently in St. Vincent amounts to 168 species. Most of these are widely spread through tropical America, and only four are endemic. In addition to the above a new species of *Hepatica*, also from St. Vincent (Kantia vincentina, C. H. Wright), was described in the Journal of Botany, vol. xxix. (April 1891), p. 107.

Of the phanerogams from St. Vincent and some of the Grena-

dines the work of determining these is being carried on as expeditiously as circumstances permit. The collection is a very large one, and the results so far attained are contained in the following memorandum prepared by Mr. R. A. Rolfe:-

The flowering plants have been determined as far as the end of Rutaceæ. Those from St. Vincent number slightly over a hundred species, of which about thirty, consisting for the most part of common West Indian plants, were not previously re-corded from the island. The most interesting plant is a species of Trigyneia (apparently new), a small tropical American genus of Anonaceæ not hitherto detected in the West Indies. Clusia and a species of Tetrapterys, which cannot be identified, may also prove new. The remainder have been fully determined. The three most interesting of these are Norantea Jussiai, Tr. and Pl., previously known only from Guadaloupe and Dominica; Zanthoxylon microcarpum, Griseb., from Dominica and Trinidad; and Z. spinosum, Sw., from Dominica, Jamaica, and The composition of the flora of the Lesser Grenadines, situated between St. Vincent and Grenada, was previously almost unknown. The plants hitherto determined are as follows:—From the island of Bequia, 34 species; from Mustique, 18; from Canouan, 5; and from Union, the nearest to Grenada, 5. They are, without exception, common West Indian largest decreased are all largest for Vincent. From the results plants, and are all also natives of St. Vincent. From the results hitherto obtained it seems clear that the flora of the Lesser Antilles is tolerably uniform throughout, although the larger islands of Dominica, Martinique, St. Lucia, and possibly St. Vincent, appear to have each a very small endemic element.

The collections made by Mr. Sherring at Grenada consist of nearly 6000 specimens of vascular cryptogams and about 1000 specimens of phanerogams. The number of species of ferns is about 140, and of these two are new, viz. Alsophila Elliottii, Baker, and Acrostichum Sherringii, Baker. The phanerogams have not yet been worked out. Sixty species of ferns were previously known from Grenada from collections made by Mr. G. R. Murray, F.L.S., and Mr. W. R. Elliott. Mr. Sherring has increased this number to 140. The species of greatest interest, other than those known to be new, are Asplenium Godmani, Baker, recently found in St. Vincent; Polypodium Hartii, Jenman, first described in 1886, and known only in the mountains of Jamaica and Dominica; and Acrostichum Aubertii, widely spread in continental America, but new to the West Indies. Other interesting plants collected by Mr. Sherring are Schizæa fluminensis, Miers, new to the West Indies, but believed to be only a shade variety of S. dichotoma, and Danæa polymorpha, Leprieur, a critical form of which but little is known.

An account of vascular cryptogams collected at Grenada is in course of being prepared for the Annals of Botany.

Mr. Sherring has prepared an interesting report on the flora of Grenada, and this will prove of great interest to students of West Indian botany.

A collection of plants was received from Dr. Nicholls at the and time as the specimens in zoology already noticed. These consisted of fifty-six species of vascular cryptogams—all of them, were, however, well-known West Indian plants—and a small number (175 numbers) of phanerogams. The latter have not number (175 numbers) of phanerogams. yet been determined.

The Committee recommend their reappointment, with the following members: Dr. Sclater, Mr. Carruthers, Prof. Newton, Mr. Godman, Dr. Günther, and Dr. Sharp. The Committee Mr. Godman, Dr. Günther, and Dr. Sharp. The Committee also recommend that the grant of £100 placed at their disposal, but not expended during the current year, be renewed.

UNIVERSITY AND EDUCATIONAL INTELLIGENCE.

CAMBRIDGE.—Mr. A. E. Shipley, Demonstrator of Comparative Anatomy, has been appointed Secretary to the Museums Syndicate; and Mr. S. F. Harmer, Demonstrator of Invertebrate Morphology, Superintendent of the Museum of Zoology, in the room of Mr. J. W. Clark.