BIBLIOGRAPHY OF THE GEOLOGY, MINERALOGY, AND
PALEONTOLOGY OF BRAZIL*

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INTRODUCTION

No comprehensive bibliography of the geology of Brazil has hitherto been attempted. M. de Margerie, in his *Catalogue des Bibliographies Géologiques*, published in Paris in 1896 by the Congrès Géologique International, mentions six papers upon geologic subjects, each of which contains references to Brazilian geology; but none of these lists makes any pretense of being a bibliography of the geology of Brazil. In 1881 the Bibliotheca Nacional, at Rio de Janeiro, published its important *Catalogo da Exposição da Historia do Brazil* in two large volumes. One of these volumes contains a list of the books and papers in the Bibliotheca Nacional that relate to the geology of Brazil, and included in this are many titles of works belonging to private individuals and not belonging to the library at that time. That is the nearest approach that has yet been made to a bibliography of the geology of Brazil. The list was necessarily imperfect; omitting the manuscripts and papers upon mineral waters, it contained only one hundred and twelve titles. A bibliography of the Mesozoic invertebrate paleontology of South America is given on pages 3 to 6 of Dr C. A. White's *Contribuições á Paleontologia do Brazil*, published at Rio de Janeiro in 1887. That list contains twenty-four titles.

*An incomplete edition of this bibliography was published in the *Archivos do Museu Nacional do Rio de Janeiro*, vol. XII, in 1903. The proofs, however, were not seen by the author and many serious errors were overlooked by the printers. The great number of titles added, the corrections made, and the growing interest in the geology of Brazil have encouraged the Geological Society of America to publish the present list.

Dr M. A. R. Lisboa, one of the ablest of the younger Brazilian geologists, has now begun the publication of an annual annotated bibliography of the geology of Brazil in the *Annaes da Escola de Minas*. The author is glad to have future work on the subject in his able hands.

In 1901, the Bureau of American Republics published at Washington "A list of books, magazine articles, and maps relating to Brazil, 1800-1900," prepared by P. Lee Phillips, 8°, 145 pages. That list includes many titles upon geology and geography, but these articles are not distinguished from others, and, so far as they relate to geology, there are more omissions than titles.

The present bibliography contains over 2,000 titles, not counting abstracts, notices, and reviews.

Owing to the poverty of literature upon the geology of Brazil, many books of travel and exploration are included that make no pretense of being works upon geology, but which contain notes upon the subject of more or less value.

But though the number of titles is over 2,000, the bulk of them treat of the geology of Brazil only at second or third hand. The original papers from which most of these references are taken were written by a few men, the most important contributions being made by Agassiz, Clarke, Derby, Eschwege, Gorceix, Hussak, Lund, Rathbun, C. A. White, and Woodward, while the field work from which these results have been obtained was done by still fewer. Some of these men have also done a vast amount of work in cognate branches of science. Lund, for example, worked on zoology and botany, as well as on geology; and the papers of Lütken, Rheinhardt, and Warming on botany and zoology are the direct outcome of Lund's work in Brazil.

This list emphasizes the fact that the great bulk of the geologic work in Brazil has been done by two men—Eschwege and Derby. These men are noteworthy both for the amount and the character of their work. Eschwege's results were mostly published in German, and have therefore not been as accessible to Brazilian students as if they had been published in Portuguese or French.

Fortunately the results of Derby's work have been published in Portuguese as well as in English, and his influence upon geologic work in Brazil has been correspondingly important. Moreover, Derby's influence has extended even further than the long list of his valuable papers would indicate, for almost every modern writer upon the geology of Brazil has been inspired by Derby's work, and not a few of them have based their conclusions almost entirely upon data furnished by him.

Mr Henri Gorceix, for several years director of the Escola de Minas at Ouro Preto, has also done much to arouse an interest in the mineralogy of Brazil and in mining engineering. Several of his students are now among the most active and efficient workers on the geology of the country.

The present bibliography is chiefly an author's list arranged alphabetically. When there are several titles credited to one author, they are arranged chronologically.

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