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Abstract

Because of the current upsurge in interest in marine manganese nodules associated with the development of an incipient nodules mining industry, there is considerable need for a complete bibliography on manganese nodules. This bibliography represents a comprehensive search of the western literature on the occurrence, mineralogy, geochemistry, and extractive metallurgy of marine manganese nodules, and combines and extends two previously published bibliographies on this subject (Glasby 1972a, b). The abbreviations used are as given in the World List of Scientific Periodicals, Fourth Edition. The bibliography contains 2077 references collected up to 31 December 1973.

INTRODUCTION

Deep-sea manganese nodules were first discovered on 18 February 1873, 300 km south-west of the island of Ferro in the Canary Group during the voyage of H.M.S. *Challenger* (Murray and Renard 1891). During the next 80 years research on nodules was sporadic and it was not until the mid 1960s that coherent ideas of nodule genesis were developed. Since that time there has been a rapid expansion in the literature on nodules, but again research was carried out by isolated groups with very little co-ordination of research effort. The realisation that manganese nodules may be an important ore resource has given impetus to the co-ordination of research effort, particularly in the United States where the International Decade of Ocean Exploration (I.D.O.E.) has played a major role in centralising research. This has largely been achieved by the funding of a series of international symposia on the subject. Because of this increased activity in nodules research, the preparation of a comprehensive bibliography on manganese nodules was considered desirable.

This bibliography represents a comprehensive search of the western literature for references on manganese nodules and closely related topics. This has been achieved principally by cross-referencing and a wide reading of the literature rather than a systematic search of individual series of journals. Major Russian and Japanese papers have been included, as are United States patents, but no attempt has been made to be comprehensive in this field. The bibliography combines and extends two previous bibliographies on this subject (Glasby 1972a, b). Because of the difficulty in obtaining some of the articles, it has not been possible to see all the references cited and it was necessary to rely on citation journals for some of the entries. However, approximately 95 percent of the references have been verified directly. The abbreviations used are as given in the World List of Scientific Periodicals, Fourth Edition. The closing date for the bibliography was 31 December 1973.

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