

U.S. DEPARTMENT OF THE INTERIOR  
U.S. GEOLOGICAL SURVEY

**PRELIMINARY BIBLIOGRAPHY OF THE GEOLOGY AND MINERAL  
DEPOSITS OF NICARAGUA**

by

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## Introduction

This bibliography was created to gather geoscience references pertinent to mineral deposits, both metallic and non-metallic, in Nicaragua. The U.S. Geological Survey through the Center for Inter-American Mineral Resource Investigations (CIMRI), collects and distributes information for all of South and Central America, as well as the Caribbean and Mexico. Geoscientific research and economic interest in Latin America increase each year, and this list of references should facilitate work by the mineral and geoscience industries.

This bibliography includes references on mines, mineral deposits, seismology, tectonics, paleontology, volcanology, geochemistry, geology, and geophysics in and near Nicaragua. Unpublished literature and theses were included whenever possible. References pertaining to hydrology, botany, zoology, agriculture, or forestry were not included except where these disciplines may be used to supplement information on mineral deposits.

Because many studies cross national borders, several references are regional in scope. These include pertinent works on the Pacific Ocean, Caribbean Sea, Mexico, and northern South America as well as the countries that share a common border with Nicaragua. Studies of the stratigraphy from southern Mexico, Honduras, Costa Rica, Belize, and Guatemala are included because the work that was initiated by oil companies' exploration efforts is more complete. Bathymetry references for both coasts of Nicaragua are included because many structures can be traced using topography to areas well offshore. Geochronology from throughout Central America was included where available to help interpret the timing and emplacement of several features and events related to metallogeny in Nicaragua.

This bibliography is considered preliminary because an exhaustive literature search has not been completed and a number of references, particularly in the "gray" literature, are undoubtedly missing. The bibliography is complete enough that anyone wishing to review the progress of work in the geosciences relating to minerals in Nicaragua should find it a convenient source.

The bibliography was compiled using Papyrus version 6.0.6, then updated to version 7.0. Both versions includes search, group sorts, keyword, and other options for locating items of interest. Some of the references lack page numbers; these references are denoted by (\*p.). The bibliography was processed using Microsoft Word version 5.5. Microsoft Word also has search and sort capabilities.

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