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# ATOLL RESEARCH BULLETIN

## 191. BIBLIOGRAPHY OF THE NATURAL HISTORY OF THE BAHAMA ISLANDS

by William T. Gillis, Roger Byrne,  
and Wyman Harrison



Issued by  
THE SMITHSONIAN INSTITUTION  
Washington, D.C., U.S.A.

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Fig. 1 - Map of the Bahama Islands and Turks and Caicos Islands, including parts of South Florida and the Greater Antilles. Fine lines outline land masses of today. Heavy lines outline Pleistocene land masses at low water levels of 11,000 years B.P. and are drawn to -50 fathom contour. These are present-day Banks. Note Banks to the east of present-day islands, no longer above water. Map synthesized from several sources by Shari L. Trautz.



# **BIBLIOGRAPHY OF THE NATURAL HISTORY OF THE BAHAMA ISLANDS**

by **William T. Gillis**<sup>1</sup>     **Roger Byrne**<sup>2</sup>     and **Wyman Harrison**<sup>3</sup>

## INTRODUCTION

This bibliography has been compiled as a project adjunct to the preparation of a new vascular flora of the Bahamas and Turks and Caicos Islands by the first author. In an attempt to understand the distributional patterns of organisms as related to the geological history of the Bahama Platform, notes were recorded from various publications dealing with the natural history of the Bahama Islands.<sup>4</sup> Portions of this bibliography are thus the result of such study of the biogeography of this region. The second and third authors had independently compiled a Bahama bibliography published in part by Fang and Harrison (1972). This work had resulted from dissertation research by Byrne on recent vegetational change in the eastern Bahamas. Harrison had been working on geological and geomorphological problems in the northern islands. At a late stage of compilation, we proposed to co-operate and pool our resources. This paper is the result. Compilation efforts ceased on 15 March 1974.

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<sup>4</sup>We construe the term "Bahamas" to signify the entire archipelago including both the Commonwealth of the Bahamas and the Crown Colony of the Turks and Caicos Islands.

(Manuscript received July 1974--Eds.)



Three other bibliographies of the natural history of the Bahamas were of value in attempting to draw up as exhaustive a bibliography as possible. The work was greatly assisted by the Land Resource Bibliography No. 1, Bahamas, which was compiled initially by N. W. Posnett (1968) and later revised by Posnett and P. M. Reilly (1971) for the Land Resources Division, Foreign and Commonwealth Office, Overseas Development Administration in Tolworth, Surrey. Their bibliographies were intended as references for those working with land resource surveys. They were essentially "in-house documents" designed for use on surveys of natural resources. A number of entries are confidential and not available to the public; others are of a nature to have been mimeographed and distributed "in house," again not generally available to the scientific community. Such entries have not been repeated herein. With permission of Messrs. Posnett and Reilly and their colleagues, we have extracted items from their bibliographies in compiling this one. We owe extraordinary thanks to them for their co-operation and permission to use their material herein.

Boersma (1968) and Fang and Harrison (1972) were most excellent resources additional to those already at hand. The former lists a number of references difficult to find, for instance, those of the United States Naval Underwater Ordnance Station, the United States Naval Oceanographic Office, and the United States Naval Research Lab. It is unlikely that these will be easy to obtain through any but the most specialized libraries or from the publishers.

Unpublished reports were not repeated herein because of the futility in trying to obtain them for reference. The bibliographies cited above should be consulted for such entries. Theses and dissertations, on the other hand, have been included because of their being generally available either on inter-library loan from the University libraries where they are deposited, or on microfilm from University Microfilms, North Zeeb Road, Ann Arbor, Michigan 48103, U.S.A.

Items have been included only if the region concerned is specifically mentioned. For papers dealing with nearby Florida or for general works on the topics mentioned, consult Boersma (1968). No attempt has been made to include all monographs written about organisms that happen to have one or more members inhabiting the Bahamas. One exception is that a special attempt was made to search for references dealing with insects and arachnids because of the small number of references in this area. On the other hand, such policy was not followed for such groups as vascular plants. The recent paper by Gillis (1974) has surveyed botanical literature for monographic studies of Bahama vascular plants. The interested person is referred to this paper in Rhodora; its rather extensive bibliography is not repeated herein.

Searches were made through indexing periodicals such as Zoological Record, the Bibliography of North American Geology, Applied Science and Technology Index (1970-72), Abstracts of North American Geology, Abstracts of Entomology, Entomology Abstracts, Aquatic Biology Abstracts, Aquatic Sciences and Fisheries Abstracts, Biological Abstracts

(1969 - 15 March 1973), Blackwelder's Guide to the Taxonomic Literature of Vertebrates, Engineering Societies Library, Engineering Index via OLE (on-line service prepared by the National Science Library, 1972-73), Science Citation Index, and the index issues (where available) of journals likely to contain research papers on the Bahamas. A MEDLARS search was made by Countway Library, Harvard Medical School, for papers dealing with this region.

The first author systematically checked journals whose subject matter deals with the Bahamas. Then he examined the "Literature cited" or "Bibliography" section for each paper of concern leading to additional references. Undoubtedly there are omissions, but we admit to having had the benefit of the four previous bibliographies. Individuals who have given us references are too numerous to mention by name. Of special assistance were colleagues in various departments of Harvard University and other naturalists whose work involves the Bahamas.

We should like to acknowledge with grateful appreciation the following persons who assisted us far beyond the usual expectations for librarians: Mrs. Patricia Hall and her staff at the Libraries of the Harvard University Herbaria; Mrs. Ruth Hill and her staff at the Library of the Museum of Comparative Zoology at Harvard; Mrs. Lorraine Spencer Garry of the Science and Medicine Library of the University of Toronto Library; Mrs. Glenn White of the National Agricultural Library, Bethesda, Maryland; Miss Phyllis Edwards and her staff at the Botany Department of the British Museum (Natural History), London; Messrs. R. Desmond and D. V. Wilson and their staff at the Library of the Royal Botanic Gardens, Kew; Miss Isabel Hamilton of the Nassau Public Library; and Mrs. D. Gail Saunders of the Department of Public Records, Ministry of Education and Culture, Nassau. Other libraries of special value to us were those of the Marine Biological Laboratory, Woods Hole, Massachusetts, the New York Public Library, and the Widener Library of Harvard University. We are deeply grateful to Mrs. Alan Kindig for typing final copy of the manuscript.

Finally and most importantly, we should like to acknowledge a generous anonymous grant to the Arnold Arboretum of Harvard University under whose auspices this work was compiled. A further gift to the Arboretum from Mrs. Charles S. Bird of East Walpole, Massachusetts has made it possible to distribute this bibliography more widely.

The continuing assistance and co-operation of our friends in the governments of the Commonwealth of the Bahamas and of the Turks and Caicos Islands have made it possible to have access to much information. We especially acknowledge Mr. Oris S. Russell, O.B.E. Permanent Secretary of External Affairs (formerly Permanent Secretary of Agriculture and Fisheries) and to Mr. Claude E. M. Smith, current Director of Agriculture and Fisheries, government of the Bahamas.

## BAHAMA LITERATURE

Some journals involved in the Bahama literature are unique. The Journal of the Bahama Society for the Diffusion of Knowledge appeared in 20 issues between 1835 and 1837, published apparently in Nassau. The parent society was entitled the Bahama Society for the Diffusion of Useful Knowledge, but the word "Useful" was dropped from the title of its journal. Most of the articles were published without a by-line; furthermore, no editor was ever indicated in published lists of officers. As a consequence, we cite such entries under "Anonymous" at the beginning of each alphabetical listing. Complete copies of this journal are rare; the only Western Hemisphere copies we know of are at the Library of Congress, the Harvard University Herbaria Libraries, the Department of Public Records (Archives) in Nassau, and in our personal collections (an incomplete copy exists at the Nassau Public Library). All but one of these was deposited in its respective library as a result of the compilation of this bibliography.

The Bahamian government itself occasionally issued reports that had a limited circulation. There was the Bulletin of the Agricultural Department, Bahamas, edited by W. Munro Cunningham. Vol. I, No. 1 appeared in January 1906. After that it was printed more or less on a monthly basis until at least March 1910 (Vol. V, No. 1). A set is on file at the Library of the Royal Botanic Gardens, Kew.

There was once also the Communications of the Nassau Agricultural Society, a loyalist publication which was issued on an irregular basis around 1801-2. In effect, it was the predecessor of the Journal of the Society for the Diffusion of Knowledge and the Bulletin of the Agricultural Department, Bahamas. The only copy we know of extant and complete is in the British Museum (Natural History).

Charles Johnson Maynard of Newton, Massachusetts issued two journals privately, the contents of which dealt chiefly with his researches in the Bahamas. These are the nearest we have ever come to finding one-man publishing ventures. According to local stories, the only contribution to the journal not made by Maynard himself was the paper on which he printed. He wrote most of the contributed articles, made the ink, and printed copies himself. One of these journals is Contributions to Science (1889-96), especially noted for his monographic study of the land snail genera Cerion and Strophia. Contributions to Science lasted for 3 volumes. The other journal was the Record of Walks and Talks with Nature (1908-20), which lasted for 12 volumes. Copies of both journals, especially the latter, are rare (see also Batchelder, 1951).

During the latter years (1969-70) in which Bahama Airways was the flag carrier of the Bahamas, an in-flight magazine "Flamingo" was available in the seat pocket for passengers to read. A number of quasi natural history articles appeared. Because of difficulty in the reader's attempt to retrieve copies of this magazine through the usual library channels, its contents are not indexed herein. Similarly, Clipper Magazine, the in-flight magazine of Pan American World Airways

(Vol. 9, No. 6 for December 1969-January 1970) contains articles on the Bahamas. The same is true for most of the contents of Bahamian Review Magazine, a commercial tourist-oriented propaganda magazine currently available.<sup>5</sup> In the late 1940's and early 1950's, another magazine of the same type, Nassau Magazine of the Bahamas had a brief existence. The ephemeral Canada-West Indies Magazine had a Bahamas-emphasis issue in 1945. Because of the only peripheral relation of any of the articles to natural history, they have not been indexed herein.

Of greater value, but of great scarcity in libraries, are the Colonial Reports made periodically to the British Colonial Office by officials stationed in the colonies. Attention is called to them as a whole for the information they contain on the natural history and industry of the region, but none is indexed herein. The Nassau Guardian, daily newspaper issued in Nassau, has published a number of documents related to the Islands, their history, politics, and resources. A list of such documents was compiled by the Guardian in 1910, but such documents -- those issued both before and since that date -- are available in few libraries outside the Bahamas. The Guardian has played a more lasting role in natural history. For more than 15 years, Mrs. Leslie (Helen Burns) Higgs has contributed a column to the Guardian every Thursday relating to plants, gardening, and agriculture. In addition, for the past year, the first author (W. T. Gillis) has contributed a monthly column to Conch News, weekly newspaper of the Turks and Caicos Islands. This deals with native plants. In the 1960's, Mr. Nixon Smiley of Miami, Florida contributed a large number of articles on the Bahamas in his featured column in the Miami Herald. None of these newspaper reports is indexed herein.

For ease of reference, entries are categorized by subject matter. Where the content of a reference relates to more than one area of interest, it is repeated in these several areas. For example,

Rosén, Nils. 1911. Contribution to the fauna of the Bahamas  
I. A general account of the fauna, with remarks on the physiography of the islands. II. The Reptiles. III. The fishes. Lunds Univ. Årssk. N.F. Afd. 2, Bd. 7 (5): 3-72 is indexed under G, H, I, N, and Z  
(Categories identified below).

Various references dealing with oceanography and marine geology completely overlap these two related fields, so they are included under both categories. Based on the compilers' judgment, we may have omitted salient papers from one or another of these categories. Hence, both G - Geology, Geodesy, and Geophysics and P - Oceanography should be consulted for references in these areas. Generally speaking, papers dealing with properties of the water and sea bottom are included under P; those dealing with compaction and accretion into rock are under G. There is some overlap similarly with G - Geology, Geodesy, and Geophysics and K - Geography.

<sup>5</sup>P.O. Box N-494, Nassau, N.P. Bahamas.

Somewhat over 90% of the published references have been examined personally and the pagination verified, especially against citations in other listings. Unless an author is named, a paper is listed as "Anonymous." Agencies are considered to be publishers, not authors. Because of the small number of published works on the Turks and Caicos Islands generally, we have indexed such items both with their related disciplines and also separately under T.

Topics follow alphabetically according to their content: (This is the sequence of listing in the bibliography)

- A - Anthropology, including archaeology and history
- B - Botany, including fungi, bacteria, and agriculture
- C - Climate and meteorology
- E - Entomology and Arachnology
- F - Folklore dealing with natural history
- G - Geology, including Geodesy and Geophysics
- H - Herpetology
- I - Ichthyology
- K - Geography
- L - Mammalogy
- M - Medicine, both Human and Veterinary, including Public Health
- N - General natural history, including semi-popular accounts
- O - Ornithology
- P - Oceanography
- Q - Tourist information related to natural history
- R - Paleontology
- S - Soil science
- T - Turks and Caicos Islands
- W - Novels and other stories with mention of natural history
- X - Industries based on natural resources
- Y - Malacology
- Z - Zoology, general and invertebrate

#### GUIDE TO ABBREVIATIONS USED IN LITERATURE CITATIONS

Abhand.	Abhandlungen
Abst.	Abstract(s)
Acad.	Academy, Academic, Académie
Adv.	Advancement
Afd.	Afhandlingar
Afr.	African, African(e)
Alum.	Alumni
Ag.	Agriculture, Agricultural
Anat.	Anatomical
Ann.	Annual, Annals, Annales
Anthrop.	Anthropologist, Anthropology
Antiq.	Antiquity
Appl.	Applied, Applicata
Arbor.	Arboretum
Arch.	Archives

Ark.	Arkiv
Årssk.	Årsskrift
ASB	Association of Southeastern Biologists
Assn.	Association
Astron.	Astronomy
Bd.	Board, Band
Berl.	Berlin
Bibl.	Bibliography
Biblioth.	Bibliothèque, Bibliothek
Blätt.	Blätter
Boll.	Bollettino
Bot.	Botany, Botanical, Botanische, Botanique
Brasil.	Brasileira
Brit.	British
Bull.	Bulletin
Bus.	Business
Calif.	California
Can.	Canadian
Carib.	Caribbean
Chem.	Chemical
Chron.	Chronic
Circ.	Circular
Civ.	Civil
Col.	Colonial
Coll.	Collection(s)
Comm.	Commission
Comp.	Comparative
Conf.	Conference
Cong.	Congress
Cons.	Conservation, Conservatoire
Contr.	Contributions
Cosmochim.	Cosmochimica
C.R.	Comptes Rendus
Dept.	Department, Departamento
Diff.	Diffusion
Dis.	Diseases
Diss.	Dissertation
Div.	Division
Ecol.	Ecological
Econ.	Economic
Ed.	Education
Eng.	England
Engin.	Engineering
Ent.	Entomology, Entomological
Env.	Environmental
Epidem.	Epidemiology
Even.	Evening
Exch.	Exchange

Exped.	Expedition
F1.	Flora
Found.	Foundation
Fr.	Français(e)
Gard.	Garden, Gardeners
Gart.	Garten
Geochim.	Geochimica
Geof.	Geofisica
Geogr.	Geography, Geographical, Geographic
Geol.	Geology, Geological, Geologists, Geologicae
Geophy.	Geophysical, Geophysics
Gesam.	Gesamten
Gesell.	Gesellschaft(en)
Helv.	Helveticae
Herb.	Herbarum, Herbarium, Herbier
Hist.	History, Historia
HMSO	Her (His) Majesty's Stationery Office
Hort.	Horticulture, Horticultural
Hydrobiol.	Hydrobiologie
Ind.	Industrial, Industries
Inst.	Institute, Instituto, Institution
Int.	International
Is.	Island(s)
J.	Journal
Jahrb.	Jahrbücher
Knowl.	Knowledge
Königl.	Königlich
Lab.	Laboratory
Lepid.	Lepidoptera, Lepidopterists
Limmol.	Limnological
Linn.	Linnaean
Lyc.	Lyceum
Mag.	Magazine
Malac.	Malacological
Malak.	Malakozoologische
Mamm.	Mammalogy
Mar.	Marine
Mass.	Massachusetts
Med.	Medical, Medicine
Mem.	Memoir(s), Memorias
Meteorol.	Meteorologische, Meteorological
Micro.	Microscopical
Midl.	Midland
Mineral.	Mineralogists, Mineralogische

M.I.T.	Massachusetts Institute of Technology
Misc.	Miscellaneous
Mus.	Museum, Muséum
Monatsch.	Monatschrift
Monog.	Monograph(s)
Mycol.	Mycologia
Mycopath.	Mycopathologia
Nat.	Natural, Naturalist, Naturae
Natl.	National
Naturgesch.	Naturgeschichte
Naturw.	Naturwissenschaftliche
Neerl.	Neerlandische, Néerlandais
Nor.	Norvegica
Not.	Notulae
Notiz.	Notizblatt
Nov.	Novitates
N.S.	New series, Nouveau Série
N.Y.	New York
N.Z.	New Zealand
Obs.	Observatory
Occ.	Occasional
Oceanog.	Oceanographic
Off.	Office, Official
Ord.	Ordnance
Ort.	Orto
Paleont.	Paléontology
Parasit.	Parasitology, Parasitological
Petrol.	Petrology, Petroleum
Pharm.	Pharmacological
Phil.	Philosophical
Phila.	Philadelphia
Polit.	Political
Preserv.	Preservation
Proc.	Proceedings
Prof.	Professional
Protistenk.	Protistenkunde
Protozool.	Protozoological
Psych.	Psychology
Pub.	Public, Publication(s), Pubblicazioni
Quart.	Quarterly
Rec.	Record(s), Recueil
Ref.	Reference
Reg.	Regnum
Rept.	Report
Repert.	Repertorium
Res.	Research
Rev.	Review, Revue, Revista



Roy.	Royal
Sat.	Saturday
Sci.	Science, Scientific, Scientifique
SE	Southeastern
Sed.	Sedimentary
Ser., Sér.	Series, Série
Serv.	Service
Soc.	Society, Société, Sociedad, Sociological
Sp.	Species, Specierum
Spec.	Special
Stat.	Statistical
Staz.	Stazione
Stud.	Studies
Surv.	Survey
Symp.	Symposium
Tech.	Technical
Tidsskr.	Tidsskrift
Trans.	Transactions
Trav.	Travaux
Trop.	Tropical
Underw.	Underwater
U.S.	United States (of America)
U.S.G.P.O.	United States Government Printing Office
Univ.	University, Universidad, Universität
U.S.G.S.	United States Geological Survey
U.S.D.A.	United States Department of Agriculture
Veg.	Vegetabile
Vet.	Veterinary
Vol.	Volume
Wash.	Washington
W.I.	West Indies
Wiss.	Wissenschaften
Yearb.	Yearbook
Zeitsch.	Zeitschrift
Zool.	Zoology, Zoologische

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