AN ANNOTATED LIST OF PUBLICATIONS ON
SAUDI ARABIAN NATURAL HISTORY
FOREWORD

This work by the staff of the National Commission for Wildlife Conservation and Development reveals how wide the range of information on the natural history of Saudi Arabia is becoming. As can be seen, the publications of the National Commission itself have contributed greatly to this work.

I welcome this compilation as a useful popular guide to all those interested in learning more about the natural history of the Arabian peninsula.

A. H. Al-Fawaz

Professor Dr. Abdulaziz H. Al-Fawaz, Secretary General
National Commission for Wildlife Conservation and Development

National Commission for Wildlife Conservation and Development
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AN ANNOTATED LIST OF PUBLICATIONS ON SAUDI ARABIAN NATURAL HISTORY

John Ady

This list assembles many of the more recently published books and papers on Saudi Arabian natural history in English to 2000. It cannot include all the studies of interest, especially scientific monographs which, when published by government departments, are also often of limited availability. For these, Batanouny's *Bibliography* of 1978 is very useful up to that date. However, some notable books which are out of print are also mentioned since they may be obtainable in libraries. The list has been compiled for a lay public, including children, rather than for scientists. It is briefly annotated, emphasizing books that are popular and relatively available, including several about adjoining countries of the peninsula where the subject matter is relevant to Saudi Arabia.

The background of natural history studies in Arabia is paradoxical. It is the only place where three of the Earth's major terrestrial biomes meet, yet traditionally has been secluded from inquiry. It lies along two of the major flyways between Palaearctica and the south, yet has been closed to nearly every traveler unless they are pilgrims. And it is fringed by one of the world's richest coral seas, yet little visited except by relatively few expatriate workers and scientists. Perhaps this is why most of the studies tend to be surveys. These are of four broad types: well-illustrated popular surveys such as Vine's *Red Sea Invertebrates*, regional exploratory studies like the *Oman Flora and Fauna Survey*, major monographs such as Gasperetti's on snakes; or virtual encyclopedias like Harrison's *Mammals of Arabia*. However, the number and quality of regional pictorial surveys of wildlife has greatly increased during the past ten years.

The seas, which are also accessible from other countries, have received quite good scientific coverage, as has the geology, for economic reasons, though the results are usually buried in restricted technical reports. Migratory birds are also well covered by international handbooks. Information on less mobile animals and on plants tends also to be found in general surveys rather than in detailed studies, though there is a growing number of exceptions. All suffer from the lack of a tradition of intensive and continuous investigation. Much traditional lore is being lost because scientists do not communicate effectively with the Bedouin (and vice versa). On the other hand, from Musil and Philby onwards, students are still at the stage of exploration and discovery. Even recently the dugong has unexpectedly been proved abundant in the Gulf, and a fox, not before known to exist in Saudi Arabia, has been found. And, over the last 26 years, over 150 plant species have been discovered which may be new to science. For Arabian scientists the field is wide open and we should expect more of the future.

For the fauna, the *Fauna of Saudi Arabia* (now *Fauna of Arabia*) has, since 1979, been the outstanding scientific journal of record. This was started under the aegis of the Meteorology and Environmental Protection Administration (MEPA) by the Basel Natural History Museum and is now co-published by the National Commission for Wildlife Conservation and Development (NCWCD). The standard of its entries, illustrations and reference lists is exemplary. Papers by its founder-editor, the Swiss entomologist Dr. Wilhelm Buttiker, of the Basel Museum, always contain good habitat photographs. The papers range from 3-page notes to major 250-page monographs. And the most easily available collection of full reviews, including publishing data, of natural history writing about Saudi Arabia and the peninsula over the past fifteen years, with an emphasis on birds, is found in the current and back-copies of *Phoenix*, Michael Jennings' excellent annual newsletter which should certainly be consulted. He is the ornithologist who is editing the *Atlas of Breeding Birds of Arabia*, soon to be published, with help from the NCWCD. The cost of *Phoenix*, both past and upcoming issues, is £2.00 sterling each, from M.Jennings, Warners Farm, Somersham, Cambridgeshire, PE17 3HW, England.

Books starred (*) have been recommended to but not seen by the compiler.
GENERAL: SAUDI ARABIA

ABU-ZINADA, A., P. GORIUP & I. NADER (eds.)
Forty-five widely ranging papers from the first symposium, held in 1987, by the National Commission for Wildlife Conservation and Development, on environmental policy, issues and education, wild animals and plants, their problems and management.

ABU-ZINADA, A. (ed.)
A well produced popular annual magazine with a wide variety of well illustrated articles, many about NCWCD projects, also book reviews. In English until 1998, in Arabic thereafter.

BATANOUNY, K.
110 pages of references (well over 1,000 items) under the headings Environment, Plant Life, Fauna, Land Use, Explorations and Bibliographies. Mainly scientific papers, some in German and French. The introductory note on explorations & expeditions is informative.

BINDAGJI, H.
Thirty thematic maps: physiographic regions, tribal areas, governorates etc. A general but inexpensive introduction.

BLUNT, A.
From Damascus to Hail via the Great Nafud to find horses. Conversationally told with incidental references to wildlife and an appendix on the region's geography by Wilfred Blunt.

BUTTIKER, W.
Introductory paper to the geography, climate, zoology and flora, with an interesting annotated list of past expeditions, good habitat photographs and an extensive bibliography.

BUTTIKER, W. (ed.)
A beautiful pictorial summary: accurate short accounts by experts with excellent photographs.

CHEESMAN, R.
1926  In Unknown Arabia. London: Macmillan.
The most knowledgeable account of Arabian wildlife of the time, based on a journey from Al-'Uqair to Jabrin via Hofuf. Attractively told, with 80 pages of notes on flora and fauna.
DICKSON, H.
A storehouse of knowledge about bedouin life based on southern Iraq, Kuwait and northeastern Saudi Arabia. Detailed but very accessibly written, with many illustrations. Short chapters on and incidental references to wildlife.

DOUGHTY, C.
The tale of the lone wanderings of a christian in Arabia, told with archaic rersonance. This poetic classic of 1888 gives a clear idea of the country and the people through which he passed in the 1870’s. Available in excerpted illustrated editions such as *Arabia Deserta*, London Bloomsbury, 1989.

GUARMANI, C.
1938 *Northern Nadj. A Journey from Jerusalem to Anaiza in Qasim.* London: Argonaut Press.
A blythe 1864 excursion to find horses with a very readable introduction. Good on topography.

HANSON, T.
A fully detailed recent account of the first great scientific exploration of Arabia.

JENNINGS, M. (ed.)
1985+ *Phoenix.* Somersham, Cambs, UK: Jennings / Riyadh: NCWCD.
An authorative annual newsletter with ornithological records and articles; also excellent reviews of books and journals on Arabian natural history.

MCKINNON, M.
Attractive and informative summary of McKinnon’s three excellent documentary videos.

------------------------------- & P. VINE
The environment of Kuwait and the northern Gulf before and after the disaster of the Gulf war.

MINISTRY OF AGRICULTURE & WATER
A well illustrated popular compendium taken from various sources on twenty different habitats and their wildlife, in Arabic and English. Limited availability.

MUSIL, A.
Exhaustive and authoritative accounts of painstaking exactitude by the Czech geographer, based on his travels of 1908-15 in northern Arabia, with full details of the topography. He also describes the precarious nomad life, flora and fauna and has many references to the works of medieval Arab geographers and poets. The areas covered are: *Northern Hejaz* – Ma’an to south of Tabuk, *Arabia Deserta* – Wadi Sirhan to Al-Jawf, *Northern Negd* – the Nafud, Ha’il and Al-Ula.
NIEBUHR, C.  
The heroic 18th century Danish scientific expedition to southwest Arabia and the Yemen. 

PHILBY, H.  
1933 *The Empty Quarter.* London: Constable. 
The characteristically solid record of an epic adventure, with many references to the fauna, flora and phenomena he encountered in crossing the Rub' al-Khali. 

A very good example of the explorer's dense and polymathic observations. Describes the Yemen border country and the Sarawat mountains between Najran and Al-Baha. 

Northwest Arabia, as exhaustively detailed on every subject he noted as his other books. Philby's records on a wide range of subjects, including archaeology and tribes, are reliable but heavy reading. 

THESIGER, W.  
The classic of travelling in the Rub' al-Khali and southern Arabia. A handsome version with Thesiger's original photographs was published in 1999 as *Crossing The Desert,* by Motivate, Dubai. 

THOMAS, B.  
1932 *Across the Empty Quarter of Arabia.* London: Cape. 
The first westerner's crossing of the Rub al-Khali. Informative and very readable about the country, tribes, lore and sparse wildlife en route, especially about his starting point, Dhofar. 

VINCETT, B.  
A very likeable personal account with excellent illustrations. 

VINE, P. & H. SCHMID  
An enthralling narrative of exploration, much of it concerned with natural history. 

WARD, P.  
A compendium of observations about Hail and its area by many travelers, including Julius Euting and Huber, Wallin, Guarmani, Doughty and the Blunts, with some references to wildlife. 

The authoritative annual scientific journal on Arabian fauna, very well illustrated. Consistently strong on entomology and new records. Many monographs and papers of more general interest, noted below.
GENERAL: OTHER SURVEYS

BURSTEIN, S.*
A translation of the ancient Greek description of the (west) coasts of the Red Sea and of Arabia.

CLAYTON, D. & K. WELLS
A beautifully illustrated comprehensive and ecologically based survey.

DUTTON, R. (ed.)
Fifty-two papers on subjects from geology to fishing communities. Well illustrated.

FISHER, W.
A useful general background.

HARRISON, D. (ed)
Well presented scholarly coverage in 12 papers of a relatively little known area.

HILL, M. & P. WEBB
1984  *An Introduction to the Wildlife of Bahrain.* Bahrain: Ministry of Information.
An attractive popular survey.

HOWELLS, V.
A very personal but observant description of the country's wildlife of the time.

JAMAM, S. & R. MEAKINS
1998  *Biodiversity of Animals in Kuwait.* Kuwait: Centre for Research & Studies.
A good if selective introduction, well illustrated with paintings and line drawings.

JONGBLOED, M
A year in the desert. Well illustrated introductory account with useful plant photographs, based on the UAE. Inexpensive.

MOUNTFORT, G.
An attractive account of an expedition to study and recommend the protection of the wildlife, vegetation and culture of Jordan, by a group of eminent conservationists.

NELSON, B.
Interesting background to a potential national park in Jordan. Strongest on birds

OSBORNE, P.
A readable well illustrated and comprehensive review of the region's natural history.
SCOTT, H.  
An engaging account by an entomologist and observant natural historian of a scientific expedition from Aden to Sana'a in pre-Republican days.

SHAW-READE, S., J. SALE, M. GALLAGHER, & R. DALY (eds.)  
1980  *The Scientific Results of the Oman Flora and Fauna Survey 1977 (Dhofar)*  
22 scholarly monographs, as well presented as its predecessor (Harrison, above).

STONE, F. (ed.)  
An original artistically illustrated report on an expedition to the northern Yemeni Tihamah. A fifth deals with area’s natural history.

VARISCO, D. *et al.*  
A report on the species, habitats and conservation of North Yemen’s rapidly deteriorating environment.

VINE, P. (ed.)  
Comprehensive, well informed and very well illustrated popular accounts by experts.

**CONSERVATION AND MANAGEMENT**

ABU-ZINADA, A., P. GORIU& I. NADER (eds)  
A very useful wide-ranging collection of papers on many of the main wildlife conservation, development, educational and management concerns of the NCWCD. The five papers listed below are all good brief summaries of their subjects:

AL-GAIN, A.  
Principles of a National Strategy for the Conservation of the Environment of the Kingdom of Saudi Arabia.

ALWELAIIE, A.  
Factors Contributing to the Degradation of the Environment in Central, Eastern and Northern Saudi Arabia.  
Strongly critical description of current practices that have increased desertification.

MCNEELY, J. & K. MILLER  
Planning and Management for Terrestrial Protected Areas in Saudi Arabia.

JUNGIUS, H.  
The Establishment of National Parks and Protected Areas in the Arid Zone: a Contribution to Conservation and Rational Utilization of Natural Resources.

BUTTIKER, W. & J. GRAINGER  
Possible Sites for the Protection and Reintroduction of Some Wildlife Species in Saudi Arabia.
Abuzinada, A., & F. Krupp (eds.)
1994 *The Status of Coastal and Marine Habitats Two Years After the Gulf War Oil Spill.* Frankfurt, Germany: Senckenberg Institute.
Introduction and 12 papers assessing the effects of the oil spill on shallow water habitats of the Gulf and their fauna and flora.

Al-Khalili, A. & I. Nader
A useful short summary. A brief preceding note in Vol. 6 gives an introductory description with a map and views of the park.

Bagader, A. et al.
1979 *Environmental Protection in Islam,* Cambridge, UK: IUCN/Jeddah: MEPA.
A discussion of the basic principles of Islamic legislation and ethics relating to the sustainable use of natural resources.

Child, G. & J. Grainger
A detailed definition of policy and description of the wildlife reserves selected for designation by the National Commission for Wildlife. Limited availability.

IUCN / UNEP

Jungi, H.
1987 *The National Park and Protected Area Concept and its Application to the Arabian Peninsula,* in *Fauna of Saudi Arabia, Vol. 9.* Riyadh: NCWCD.

Scott, D.
Includes 50 pages by the ornithologist S. Newton detailing thirty wetland sites in Saudi Arabia.

**Mammals**

Dixon, A. & D. Jones (eds.)
22 papers, nine on the Arabian oryx, mostly in Oman. Includes the proceedings of the 25th annual celebration of the ‘Operation Oryx’ symposium.

Carruthers, D.
An essential, now rare, record by a naturalist traveller in 1910 in search of the last northern Arabian oryx populations. Recorded oryx, ibex, cheetah, ostrich and leopard. Gives a history of oryx sightings.

Gasperetti, J., D. Harrison & W. Buttiker
Authoritative detailed systematic checklist with distribution maps and a good bibliography.
GHANDOUR, A. et al.  
1983 A Review of the One-humped Camel...In the Western Region of Saudi Arabia, in *Fauna of Saudi Arabia, Vol 5.* Jeddah: MEPA.  
Interesting brief description.

GHANDOUR, A.  
1987 *The Oryx from Captivity to Reintroduction.* Riyadh: NCWCD.  
A basic introduction, in English and Arabic.

GROSS, C.  
Attractive popular account, based on fieldwork. Deals mainly with larger mammals.

GROVES, C.  
A brief paper by an expert, on the five species found in Arabia.

HABIBI, K.  
A well documented account of the Arabian ibex by a scientist with long experience in Arabia.

HABIBI, K. et al. (eds)  
1997 *The Gazelles of Arabia.* Riyadh: NCWCD.  
Very informative on the history, taxa, status, ecology, behavior, physiology, reintroduction and management of Arabian gazelles.

HARRISON, D.  

One of a series of short illustrated guides by experts.

------------------ & P. BATES  
A handsome updated one volume version of the above but it omits some of the detail and all the collection lists of the original.

JONGBLOED, M.  
1994 *Yawi: The Wild Cat.*  
Attractively told and illustrated tales of wildlife for children.

A delightful personal account by a co-founder of the Arabian Leopard Trust.

KHAN, R.  
An informative conservation-oriented picture book, also in Arabic. Inexpensive.
KINGDON, J.
A popular presentation illustrated by Kingdon's sketches and paintings to a text by the staff of the Bahrain Al-Areen wildlife park. Some questionable inclusions.

KUMMER, H. et al.
An interesting short comparative account to that date.

NADER, I.
A short summary of the subject.

An up-to-date list with exhaustive bibliography.

SHEPHERD, A. *
The story of taking some of the last oryx from the Rub al-Khali, to found the world herd.

STANLEY-PRICE, M.
A very detailed but readable account of this initially successful reintroduction.

BIRDS

ALLEN, M.
The basic complete reference to the subject.

AL-TIMIMI, F.
A detailed and well illustrated description.

ANDREWS, I.

ASPINALL, S.*
A well written detailed description with excellent photographs of 101 breeding species with recommendations for their conservation.
Baldwin, P. & B. Meadows
An attractive presentation with well illustrated descriptions in English and Arabic of 300 species mostly migratory, along the northwest Arabian coast. Limited availability.

Bundy, G., R. Connor & C. Richardson
Definitive regional reference with an excellent introduction to landscape, habitats, adaptation and migration. Beautiful photographs, detailed descriptions and bibliography.

Cramp, S. & K. Simmons (eds.)
The standard detailed reference for most of the breeding species of Arabia, in 10 volumes. Expensive.

Del Hoyo, J., A. Elliot & J. Sargatal
A very handsome illustrated global survey. Well organised information. To be completed in ten volumes. Expensive.

Evans, M. (ed.)
1996 *Important Bird Areas in the Middle East.* Cambridge, UK: BirdLife Int'l
A compact exhaustively researched reference. Valuable for conservation planning.

Etchecopar, R. & F. Hue
Comprehensive and well illustrated, good on behavior.

Gallagher, M. & M. Woodcock
A very handsomely illustrated guide, later published in Arabic.

Gensbol, B.
A useful wide-ranging guide.

Hill, M. & M. Hill *
A handbook with excellent photographs listing the best birding sites and monthly occurrence records.

Hirschfeld, E.
A handbook with very well detailed local information.

Hollob, P. et al.
A useful pocket guide, now updated by Porter *et al.* below.
<table>
<thead>
<tr>
<th>Date</th>
<th>Title</th>
<th>Author/Editor</th>
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<tr>
<td>1981</td>
<td><em>Birds of the Arabian Gulf</em></td>
<td>JENNINGS, M.</td>
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<td></td>
<td>One of a series of short illustrated guides by experts.</td>
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<tr>
<td>1981</td>
<td><em>The Birds of Saudi Arabia: A Checklist</em></td>
<td>JENNINGS, M.</td>
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<tr>
<td></td>
<td>A well annotated list of 413 species up to that date.</td>
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<tr>
<td>1987</td>
<td>A Note on the Birds of the Farasan Islands, in <em>Fauna of Saudi Arabia</em>, Vol. 9.</td>
<td>JENNINGS, M.</td>
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<td></td>
<td>Interesting brief descriptions and discussion.</td>
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<td></td>
<td>An invaluable preliminary record of 11 years of observations and annual expeditions, with brief notes on range, habitat and breeding for 245 species, and distribution maps for 198.</td>
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<tr>
<td>1996</td>
<td><em>Birds of Europe with North Africa and the Middle East</em>.</td>
<td>JONSSON, L.</td>
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<td></td>
<td>The best handbook to European birds. Excellent information and illustrations.</td>
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<tr>
<td>1954</td>
<td><em>Birds of Arabia</em>.</td>
<td>MEINERTZHAGEN, R.</td>
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<td></td>
<td>A beautifully illustrated work, long the only authority, based on data from H. Bates, Philby and his own field experience in eastern Arabia and the Asir. Eccentrically opinionated.</td>
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<tr>
<td></td>
<td>Excellent comprehensive account covering eleven species, five of which are found in Arabia.</td>
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<td></td>
<td>Riyadh: NCWCD.</td>
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<tr>
<td></td>
<td>A good account of the bird life of the longest perennially flowing wadi of the Hijaz.</td>
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<tr>
<td>1993</td>
<td><em>Birds of Bahrain</em>.</td>
<td>NIGHTINGALE, T. &amp; M. HILL</td>
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<td></td>
<td>Handsome well arranged publication with good information.</td>
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<tr>
<td></td>
<td>A good pocket reference for the identification of migrants to supplement Porter et al.</td>
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<tr>
<td></td>
<td>The highly recommended definitive bird guide for the region: with over 700 fully illustrated species and distribution maps. Supersedes Hollom et al. above.</td>
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<tr>
<td>1993</td>
<td><em>Falconry and Birds of Prey in the Gulf</em>.</td>
<td>REMPLLE, D. &amp; C. GROSS</td>
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<td></td>
<td>A well illustrated survey with technical detail and historic background. Inexpensive.</td>
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RICHARDSON, C.
Very well illustrated reference for the U.A.E. Details distribution maps, migration patterns and bird-watching sites.

ROBINSON, D. & A. CHAPMAN
A short popular account (originally published as *The Birds of Saudi Arabia*). Inexpensive.

--------------- & S. ASPINALL
1998 *The Shell Birdwatching Guide to the U.A.E.*
A practical and thorough introductory guide for visitors with habitat shots and systematic checklist. Based on the same authors' 1996 comprehensive and detailed *Checklist of the Birds of the U.A.E.*

ST. JALME, M. & Y. VAN HEEZIK
A technical manual on propagating the main prey of Arab falconers: the core project of the National Wildlife Research Center at Taif.

SHIRIHAI, H., E. DOVRAT & D. CHRISTIE
A monumental work. Breeding, distribution and migration maps. Excellent illustrations.

SILSBY, J.
A popular personal view with attractive though several out-of-focus photographs.

STAGG, A.
A useful early checklist.
1994 *Birds of the Riyadh Region* (2nd ed.). Riyadh: NCWCD.
Full annotated checklist of 311 species, by a leading ornithologist, with good habitat illustrations. Replaces his 1987 checklist of the region.

**PLANTS**

AL-HUBAISHI, A. & K. MULLER-HOHENSTEIN
Interesting introduction in English and Arabic to the ecological zones of northern Yemen, with 25 habitat and 125 species illustrations.

AL-ZOGHET, M. et al.
87 species well illustrated and described in English and Arabic in an attractive format, aimed at landscape use of native plants; some errors. Limited availability.
BATANOUNY, K.
A well illustrated reference with good coverage of the ecology of Qatar.

BLATTER, E.
An early flora based on southern Arabia with a chapter on botanical exploration listing collectors, botanists and travellers from classical times on, with dates, publications and notes.

CHAUDHARY, S.
A clear guide with line drawings to the 15 species of Acacia and 8 related species.

CHAUDHARY, S. & M. AKRAM
A very useful concise description in English and Arabic of 230 species of weeds, with line drawings. Limited availability.

CHAUDHARY, S.
A good brief note, by an expert on rangeland vegetation.

Exemplary authoritative reference with line drawings, by the Arabian expert.

CHAUDHARY, S. (ed.)
An exemplary and handsome national flora with descriptions of great authority and 190 pages of very clear line drawings. Gives an introductory overview, habitats, distribution, Arabic names and notes on both taxonomy and uses. Supersedes Migahid & Hammouda.

-------------------------- & A.AL-JUWAID (eds.)
A fairly comprehensive, readable and attractive popular introduction to Saudi plant associations and plants, with text in English and Arabic and good but sometimes poorly reproduced photographs.

COLLENETTE, S.
A photographic guide by Arabia's most experienced field botanist: 1622 species.

2243 species are listed and categorized as endemic, endangered or extinct, based on 25 years of experience in the field; also field notes on the Asclepiadaceae.
1999  *Wildflowers of Saudi Arabia.* Riyadh: NCWCD.

Essential and beautiful pictorial reference with 2250 native plants, illustrating all but 66 of the country's flowering plants with clear color-corrected photographs by the author plus 264 grasses in line drawings, each with a short description and locale found. But at 800 pages and SR1,000, not a handbook. Supersedes her 1985 Illustrated Guide.

**CORNES, M. & C. CORNES**  


**DAOUD, H. & A.AL-RAWI**  

A scholarly reference with over 360 good illustrations, though these are rather small in Volume 1.

**EVENARI, M., L. SHANON, & N. TADMOR**  

Technical but very interesting account from landforms through water harvesting and plant adaptation to agriculture.

**GHAZANFAR, S. & M.FISHER (eds.)**  

A scholarly compendium fully describing the ecological conditions characterizing six main biomes. Includes a chapter on the uses of the plants to man.

**GROOM, N.**  

A fascinating historical study of the Arabian incense trade.

**HEEMSTRA, H. & H. AL-HASAN**  
1990  *Plants of Northern Saudi Arabia.* Sakaka: Min. of Agriculture Research Center.

Useful for the Al Jauf northern border region. Limited availability.

**KHAN, M.**  

An informative popular booklet on 16 native species.

**MANDAVILLE, J.**  

Excellent detailed botanical reference with a very useful introduction. Arabic names and traditional uses. 268 (small) color illustrations. 63 Arabic pages and a good bibliography.

**MILLER, A. & M. MORRIS**  

A beautifully illustrated botanical reference by the author of the ongoing flora of Arabia, plus full extremely interesting ethnobotanical notes on each plant.
MILLER, A. & T. COPE
The first of six definitive volumes. Includes cultivated and horticultural plants. Part I gives a comprehensive background, Part II is the beginning of the flora. Each species is described with notes on ecology and distribution.

MOORE, E.
Useful general horticultural reference.

MOSSA, J., M. YAHYA & I. AL MESHAL
1987  Medical Plants of Saudi Arabia. Riyadh: King Saud University Libraries.
An illustrated compendium. Information and illustrations of very varying quality.

RICKS, G.
160 species, a quarter of them native, described and illustrated (in poor color) for landscape use. Good plant tolerance and suitability lists.

SCHOLTE, P., A. AL-KHULEIDI & J. KESSLER
A booklet mapping and describing the eight main vegetation zones of North Yemen.

SHUAIB, L.
Good popular illustrated descriptions of 200 species.

VINCETT, B.
Beautiful photographs of the commoner plants of central Saudi Arabia. Good habitat shots.

WESTERN, A.
300 species attractively described with distribution maps and 40 habitat illustrations.

ZAHRAN, M.
A booklet of introductory use.

ZOHARY, M.
An attractive well illustrated popular survey by the author of the magisterial Geobotanical Foundations of the Middle East.
MARINE LIFE

AL-BAHARNA, W.
   A useful guide to Gulf fishes with many photographs by Dr. J. Randall.

ALEEM, A.
   A good short account of the habitats under threat.

Baldwin, R., & R. Salm
1994  Whales and Dolphins Along the Coast of Oman. Totnes, Devon, UK: NHBS.
   A fascinating, thorough and well illustrated account of the 20 or more species occurring in Arabian seas.

Basson, P., J. Burchard, J. Hardy & A. Price
   An outstanding well illustrated analysis of marine habitats and biology.

Bemert, G. & R. Ormond
   Very readable and well illustrated introduction by scientists experienced in the field.

Bosch, D. & E. Bosch
   Excellent illustrated reference. Inexpensive.

Carpenter, K. et al.
1997  The Living Marine Resources of Kuwait, Eastern Saudi Arabia, Bahrain, Qatar and the UAE. Rome: FAO / UN.
   A scholarly and technical field guide and directory to the flora and fauna and their status, in the coastal waters of the Gulf.

Dance, P. [ed.]
   A large, thorough and superbly illustrated survey by four authorities on the subject.

Dipper, F. & T. Woodward
   Well illustrated popular survey. Another in the inexpensive Arabian Heritage series.

Doubilet, D. & A. Ghisotti *
   A colorful personal album of diving experiences.

Edwards, A. & S. Head (eds.)
   Comprehensive scholarly reference on 18 topics from ecology to settlements and conservation.
FIELD, R. & M.
A very attractive, informative, well illustrated and readable guide.

FREIDMAN, G. & W. KRUMBEIN. (eds.)*
Many good papers based on the northern Red Sea, including an excellent history of the sea.

GHISOTTI, A. & A. CARLEITI
Maps, features and fish of 27 main diving sites on the west coast of the Red Sea.

JAPAN INTERNATIONAL COOPERATION AGENCY & NCWCD
An attractive teaching pamphlet illustrating the habitats and wildlife of this coast. Also in Arabic but of limited availability.

JONES, D.
A classic guide to the invertebrates of the Gulf shores.

JONES, D. *et al.*
Beautifully illustrated short introductory guide to the six main habitats of the Sanctuary, including the northern Gulf islands. Draws on the latest scientific findings.

KLAUSEWITZ, W.
Describes the endemic fishes of the Red Sea.

KRUPP, F. *et al.*
30 wide-ranging scientific papers on the environment and its conservation in the Gulf following the criminal 1991 oil spills.

MILLER, J.
The results of a two and a half year study on the green and hawksbill turtles.

MOORE, R.
The discussion includes the effect of Indian Ocean currents on the southern Red Sea.
PREEN, A.
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SHEPPARD, C. & A.
Two authoritative papers, on the coral and reefs of the central and southern Red Sea.
Definitive survey and identification guide by the authority on Arabian corals: descriptions, illustrations and distribution for over 200 species.
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TAHER, A. & C. SHEPPARD 
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Four known and two new species described and illustrated.

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Soils, water and vegetation described and combined as land planning units, based on the above soil and water atlases. Rather too generalized for use for specific sites but interesting reading. All four atlases are very large, but are available in libraries, in English and Arabic.
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Useful short summary with 10-year data from 8 stations.

**SPENCER, C. & O. FARRA**
Geological specimens as the Rock Beautiful. Not exhaustive.

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