

# Plants of Sabkha Ecosystems of the Arabian Peninsula

# 5

Shahina A. Ghazanfar, Benno Böer, Abdul Wali Al Khulaidi, Ali El-Keblawy, and Sara Alateeqi

## Abstract

Sabkhas are unique ecosystems that are highly saline and where specially adapted plants are able to grow, flower, and fruit. In general, saline environments are poor in species – for the Arabian Peninsula about 120 taxa are recorded as halophytes which constitute about 4% of the total flora of the Arabian Peninsula. Key halophytes of Arabia are nearly always perennial; predominant life-forms are somewhat succulent, semiwoody dwarf shrubs belonging to the families Amaranthaceae, Zygophyllaceae, and Plumbaginaceae and hemicryptophytes belonging to the Poaceae, Cyperaceae, and Juncaceae; annuals are exceptions. Coastal species are either obligate halophytes or salt-tolerant genera from unspecialized families, such as *Sporobolus* and *Aeluropus* (Poaceae), or salt-secreting species such as *Avicennia* (Acanthaceae) and

*Limonium* (Plumbaginaceae). The submerged coastal vegetation, e.g., seagrasses, is one of the most important vegetation types of the Gulf coast and is of great importance to marine fauna. The north-south distribution of coastal species is more distinct on the Red Sea coast, with the border lying near Jeddah, than on the Persian Gulf coast where there is a broad transitional zone between Qatar and northern Oman. The east-west distribution of coastal species is not as distinct. The eastern elements are either restricted to the coasts around the Arabian Gulf or are Irano-Turanian species extending into the Gulf region. Several vicariant species groups of halophytes are represented in the Arabian Peninsula. Halophytes have developed strategies for seed germination such as high germination levels and fast germination speed. These traits are found in the sabkha plants of the Arabian Peninsula. Some halophytes have been investigated for their potential for phytoremediation in their ability to survive weathered oil-contaminated soils. They have been found to have a set of microorganisms around their root system that are related to the degradation of oil in contaminated soils. Sabkha ecosystems are being degraded and altered throughout the Gulf countries as they appear to be nonproductive. Over the last two decades, there has been a growing concern in protecting and restoring mangroves, and programs do to so have seen

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# Sabkha Ecosystems

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Böer, Thabit Zahran Al Abdessalaam**

## **Sabkha Ecosystems:**

Sabkha Ecosystems M. Ajmal Khan, Benno Böer, German S. Kust, Hans-Jörg Barth, 2008-08-27 Sabkha Ecosystems Volume I The Arabian Peninsula and Adjacent Countries was published in 2002 It was the first comprehensive volume dealing with the subject of sabkha research and sabkha environmental management Valuable new information was provided for the sabkha of numerous countries on and adjacent to the Arabian Peninsula This new volume now follows up on this important process and provides data and information on salt desert ecosystems of numerous West and Central Asian countries including many of which are located in the Arabian Peninsula The information provided assists the reader to better understand sabkha geology hydrology geomorphology zoology botany ecology ecosystem functioning as well as sabkha conservation utilisation and development The volume is paramount literature for anyone dealing with sabkha research and development

*Sabkha Ecosystems* M. Ajmal Khan, Benno Boër, Münir Öztürk, Miguel Clüsener-Godt, Bilquees Gul, Siegmund-W. Breckle, 2016-06-22 This book is a part of the Sabkha Ecosystems series which was designed to provide information on sabkha ecosystems of different regions and to add to the collective knowledge available about saline ecosystems The comprehensive coverage assists the reader gaining a thorough understanding of sabkha geology hydrology geomorphology zoology botany ecology and ecosystem functioning as well as sabkha conservation utilization and development Volume I focused on The Arabian Peninsula and Adjacent Countries volume II was based on describing saline ecosystems of West and Central Asia volume III referred to Africa and Southern Europe while volume IV focused on Cash Crop Halophyte and Biodiversity Conservation The present volume V focuses on Americans

Sabkha Ecosystems H.-J. Barth, Benno Böer, 2002-03-31 Contains 31 contributions presenting the results of recent decades research on the extensive intertidal and inland saline flats of the Arabian Gulf Region known colloquially as sabkhat Only relatively recently acknowledged to be valuable ecosystems with research development and conservation value sabkhat are thoroughly explored in this volume by biologists geologists archaeologists ecologists botanists zoologists and other researchers and scientists from many countries The volume s 31 contributions are organized into three sections distribution of sabkhat within the Arabian Peninsula and the adjacent countries 13 sabkha ecology 14 and sabkha land use and development 4 The book includes some fairly low key b w photographs charts and maps Annotation copyrighted by Book News Inc Portland OR

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**Sabkha Ecosystems: The Arabian Peninsula and adjacent countries** Hans-Jörg Barth, Benno Böer, 2002

**Sabkha Ecosystems** M. Ajmal Khan, Benno Böer, Münir Öztürk, Thabit Zahran Al Abdessalaam, Miguel Clüsener-Godt, Bilquees Gul, 2014-05-12 Sustainable development is the key for the survival in 21st century The natural resources are finite and cannot be used with impunity because we are the

custodian of these resources and have responsibility to pass these to the next generation This monumental task requires several major commitments and most important of them is to arrest population explosion which has already reached seven billion Natural resources like air to breath food to eat and water to drink and fossil fuel to maintain this life style are being overexploited Unrestrained consuming culture will accelerate undesired situation This situation will have more dire consequences in resource limited ecosystems like dry lands Given the severe scarcity of water ever increasing population and soil salinization out of the box solutions for the provision of food and clean energy is required to spare meager fresh water resources for conventional agriculture This volume contains a number of articles dealing with halophyte ecology bio geography ecophysiology hyper saline soils biofuels biosaline agriculture biosaline landscaping climate change mitigation and biodiversity It also contains the communication of innovative ideas such as the research into floating mangroves seagrass terraces as well as a World Halophyte Garden containing all known salt tolerant plant species It is hoped that the information provided will not only advance vegetation science but that it will truly generate more interdisciplinarity networking awareness and inspire farmers and agricultural and landscaping stakeholders to seriously engage in halophyte cash crop production in coastal hyper saline areas      *Sabkha Ecosystems* M. Ajmal Khan,Benno Böer,Münir Öztürk,Thabit Zahran Al Abdessalaam,Miguel Clüsener-Godt,Bilquees Gul,2014-05-26 Sustainable development is the key for the survival in 21st century The natural resources are finite and cannot be used with impunity because we are the custodian of these resources and have responsibility to pass these to the next generation This monumental task requires several major commitments and most important of them is to arrest population explosion which has already reached seven billion Natural resources like air to breath food to eat and water to drink and fossil fuel to maintain this life style are being overexploited Unrestrained consuming culture will accelerate undesired situation This situation will have more dire consequences in resource limited ecosystems like dry lands Given the severe scarcity of water ever increasing population and soil salinization out of the box solutions for the provision of food and clean energy is required to spare meager fresh water resources for conventional agriculture This volume contains a number of articles dealing with halophyte ecology bio geography ecophysiology hyper saline soils biofuels biosaline agriculture biosaline landscaping climate change mitigation and biodiversity It also contains the communication of innovative ideas such as the research into floating mangroves seagrass terraces as well as a World Halophyte Garden containing all known salt tolerant plant species It is hoped that the information provided will not only advance vegetation science but that it will truly generate more interdisciplinarity networking awareness and inspire farmers and agricultural and landscaping stakeholders to seriously engage in halophyte cash crop production in coastal hyper saline areas      *Blue Carbon Mangrove Ecosystems* Miguel Clüsener-Godt,Hiroyuki Matsuda,Benno Böer,Ronald A. Loughland,2024-10-14 Blue carbon ecosystems are of tremendous value toward the utilization of high salinity water such as seawater as well as hyper saline soils and salt tolerant biota for the production of biomass for food feed fiber fuel other

economic purposes and carbon sequestration In order to achieve the 17 SDGs the scientific research into blue carbon ecosystems is an absolutely important element Moreover monitoring is needed as well as the conservation of the remaining blue carbon ecosystems and the restoration of lost habitat The book will provide comprehensive scientific documentation inspiring the way forward on how to utilize saline resources in the best interest of humanity It will try to foster the academic research and networking for land users politicians development banks innovative farmers investors energy producers and carbon off setters The papers presented in this book emanate from a conference held at the Yokohama National University Japan in January 2023

**Protecting the Gulf's Marine Ecosystems from Pollution** Abdulaziz H. Abuzinada,Hans-Jörg Barth,Friedhelm Krupp,Benno Böer,Thabit Zahran Al Abdessalaam,2008-03-05 This volume reviews present sources and levels of pollution in The Gulf assesses their causes and effects on biota and ecosystems and identifies preventive and remedial measures reducing levels of pollution and mitigating adverse impacts It is supported by UNESCO Doha **Sabkha Ecosystems** Münir Öztürk,Benno Böer,Hans-Jörg Barth,Siegmar-W. Breckle,Miguel Clüsener-Godt,M. Ajmal Khan,2010-12-07 This book is part of the Sabkha Ecosystems series The series is designed to provide information on sabkha ecosystems of different regions It will add to the collective knowledge available about saline ecosystems and also focuses on the African region where only limited information is currently available on

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