

Preface

Mediterranean Soil Ecosystems (MSE) is a series of formal scientific publications of the Soil Science Society of Turkey (SSST). Established in 1964, the SSST supports wide range of research in soil science and related disciplines. Mediterranean Soil Ecosystems invites contributions on topics in soil ecosystems, soil and land degradation and desertification, agroecosystem management, carbon dynamics and management systems and ancient land use in the Mediterranean environment and context, palaeopedology and geopedology, and the changing soils and soils of tomorrow and their likely use under climate change scenarios.

Mediterranean Soil Ecosystems also aims to improve communication and develop holistic integrated approaches for achieving a sustainable management of the environment. The MSE welcomes all aspects of soil science and its inter-relations to soil and earth sciences, agriculture, forestry, biology, botany, climatology, ecology, ecological economics, environmental sciences and engineering, environmental law, carbon policies, and information sciences related to environmental integrity. Mediterranean Soil Ecosystems welcomes readers, authors, and research results from academia, business, government, research institutes, and public interest groups.

This book covers ecologic and socio-economic aspects of carbon management in Mediterranean ecosystems. The chapters were selected among those presented at the 1st Istanbul Carbon Summit, held at Istanbul Technical University, 2–4 April, 2014 and subsequently peer reviewed by the members of editorial committee.

Discussion on multiple interactions between soil carbon and environment were covered in first three chapters. Carbon trading issues in different Mediterranean nations and related policies, application, and implementations are covered in Chap. 4. Chapter 5 covers a unique discussion on how recent developments and related ecological disturbance affected life of Nubians, one of the most ancient peoples in the world, their civilization started more than 8,000 years ago in Egypt. Chapter 6 discusses the results of a study on relationships between carbon dioxide emissions and exports in terms of carbon dioxide emissions, total exports, agricultural exports, industrial exports, and service exports in 23 countries from different income levels and different regions. Chapter 7 introduces a functional

‘energy–economy–ecology–engineering’ integrated model that calculates final energy consumption from primary energy supply and discusses its application in Turkey and Chap. 8 covers discussion on the cost/benefit assessment of implementing Land Use, Land Use Change and Forestry (LULUCF) accounting the regulations in Turkey in the future. Chapter 9 discusses carbon certification applications in Turkey and finally, Chap. 10 discusses results of a long term study on carbon sequestration and mycorrhizae in two soil series located in the eastern Mediterranean region of Turkey (Adana). The editors of this book profoundly express their gratitude to the series editor Hans G Brauch for his everlasting and sincere efforts which led us to made this book a worthwhile achievement. We also thank N Özçelik and S Sabancılar who designed the İznik tile pattern on the front cover.

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June 2016

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Carbon Management, Technologies, and Trends in
Mediterranean Ecosystems

Erşahin, S.; Kapur, S.; Akça, E.; Namlı, A.; Erdoğan, H.E.
(Eds.)

2017, X, 158 p. 58 illus., 41 illus. in color., Softcover

ISBN: 978-3-319-45034-6