

BARK BEETLES

BIOLOGY AND ECOLOGY OF NATIVE AND INVASIVE SPECIES

Edited by

Fernando E. Vega

Sustainable Perennial Crops Laboratory, United States Department of Agriculture,
Agricultural Research Service, Beltsville, MD, USA

Richard W. Hofstetter

School of Forestry, Northern Arizona University, Flagstaff, AZ, USA

Bark beetles are economically important pests of coniferous and broadleaf trees, as well as of many crops of agricultural importance. Outbreaks of various types of bark beetles have caused widespread damage to forested environments around the world. Recently, global warming has been implicated as a contributing factor to the explosive increase in bark beetle populations in many forests throughout the northern hemisphere. In addition, genome data on bark beetles and associated microbes have become more common in the scientific literature, thus increasing our knowledge of the bark beetle system.

Bark Beetles: Biology and Ecology of Native and Invasive Species is the first complete volume dedicated solely to this important group of insects. Written by renowned experts in the field, it contains 15 chapters on natural history and ecology, morphology, taxonomy and phylogenetics, evolution and diversity, population dynamics, resistance, symbiotic associations, natural enemies, climate change, management strategies, economics and politics, and more. The book is ideal for entomology and forestry courses, and is aimed at scientists, faculty members, forest managers, practitioners of biological control of insect pests, and students in the disciplines of entomology, ecology, and forestry, as well as mycologists interested in bark beetle-fungal associations.

KEY FEATURES

- Provides the only synthesis of the literature on bark beetles
- Features chapters exclusively devoted to some of the most economically important bark beetle genera, such as *Dendroctonus*, *Ips*, *Tomicus*, *Hypothenemus*, and *Scolytus*
- Includes copious color illustrations and photographs that further enhance the content



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