



Climate Change, Air Pollution and Global Challenges: Chapter 17. Effects of Ozone on Forest Ecosystems in East and Southeast Asia (Developments in Environmental Science)

Takayoshi Koike, Makoto Watanabe, Yasutomo Hoshika, Mitsutoshi Kitao, Hideyuki Matsumura, R. Funada, Takeshi Izuta

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Air pollution, especially ozone, in East and Southeast Asia is considered to be more serious than in Europe and North America. An increase in ozone concentration may lead to adverse effects on forest trees in East and Southeast Asia where we have high species richness. Although some information on the effects of ozone on plantation tree species in East Asia is available, the situation of most countries in Southeast Asia is not clarified. In Japan, advanced methodologies such as the stomatal flux-based approach, use of a free-air ozone fumigation system and stand level studies have started recently. To maintain ecosystem services of forests such as carbon sink and conservation of biodiversity, there is a need to develop our understanding of the effect of ozone on vegetation in East and Southeast Asia. To this end, international cooperative research is important.

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