

## Developing remote sensing techniques to estimate photosynthesis and annual forest growth across a steep climatic gradient in western Oregon, USA

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### Abstract

Waring, R.H., Runyon, J., McDonald, B., Yoder, B., Goward, S.N. & Ryan, M. (1993). Developing remote sensing techniques to estimate photosynthesis and annual forest growth across a steep climatic gradient in western Oregon, U.S.A. In: *Management of structure and productivity of boreal and subalpine forests* (ed. S. Lindner & S. Kellomäki). *Studia Forestalia Suecica* 197, 54 pp. ISSN 0033-5150, ISBN 91-576-4522-0.

The upper limits to photosynthesis are set by the amount of light intercepted daily and annually by green foliage. Fluctuating temperatures, drought, and humidity affect the maximum photosynthesis. The visible light intercepted and that a subset by leaves distributed across an environmental gradient in western Oregon were assessed from ground-based meteorological and physiological measurements. Utilized light was converted into biomass increment and showed an annual efficiency of  $1 \mu \text{ MJ}^{-1}$  for forests with aboveground production from  $<2$  to  $17 \text{ Mg ha}^{-1} \text{ yr}^{-1}$  ( $r^2=0.95$ ). We present analogues in remote sensing for all of the ground-based measurements. We illustrate how various sensors estimate: (1) solar radiation, (2) temperature, (3) drought, (4) atmospheric water vapor deficits and (5) any properties of the vegetation. Combined, these remotely sensed techniques offer a means of estimating forest growth in the Pacific Northwest and possibly, globally.

**Key words:** light interception, photosynthesis, respiration, remote sensing, climatic change, net primary production

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### Introduction

Large changes in climate are predicted in the next century as a result of increasing production of greenhouse gases. Natural systems of the future are expected to differ structurally from those observed today. Given these uncertainties, by what means are we to evaluate the potential effects of climate change on vegetation? One benchmark for measuring change came in 1972 with the launching of the first in a series of Landsat satellites. Much greater coverage is

planned from a variety of satellites near the end of the present decade. With improvements in calibration, spectral sensitivity, spatial coverage, and data processing, new satellite sensors offer the potential to follow subtle changes in the biophysical characteristics of landscapes. We had the opportunity, as part of a NASA sponsored research project (Oregon Transect Ecosystem Research, OTTER), to investigate whether current remote sensing techniques

# Management Of Structure And Productivity Of Boreal And Subalpine Forests Studia Forestalia Suecica

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biodiversity in the landscape In the traditional silviculture regime the future amount of deciduous trees was constant while the amount of old forest strongly decreased As expected this regime also generated the highest economic output The decrease in harvested volumes and net incomes in the other regimes was approximately proportional to the reduction in non protected productive forest land

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