

## 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

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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 which is filtered 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  $1 \mu\text{M}^{-2}$  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

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Sune Linder,1993      *Mountain Timberlines* Friedrich-Karl Holtmeier,2009-03-15 For more than 40 years I have been engaged in timberline research Thus one could suppose that writing this book should not have been too difficult It was harder however than expected and in the end I felt that more questions had arisen than could be answered within its pages Perhaps it would have been easier to write the book 30 years ago and then leave the subject to mature Lastly it was the late Prof Heinz Ellenberg who had convinced me to portray a much needed and complete picture of what we know of the timberline with special respect to its great physiognomic structural and ecological variety The first version of this book was published in the German language Holtmeier 2000 Nevertheless I was very delighted when Prof Martin Beniston encouraged me to prepare an English edition for the series *Advances in Global Change Research* which guaranteed a wider circulation Timberline is a worldwide and very heterogeneous phenomenon which can only be presented by way of examples My own field experience is necessarily limited to certain timberline areas such as the Alps northern Scandinavia northern Finland and many high mountain ranges in the western United States and Canada However my own observations and the results of my and my previous collaborators research were essential for developing the concept of the book and became integrated into the picture of timberline that is presented in the following chapters      *Arctic, Antarctic, and Alpine Research* ,2002      Forest Science ,1996      Studia Forestalia Suecica ,1963      **Journal of Tropical Forest Science** ,1997      Scottish Forestry ,1995      *Government Reports Announcements & Index* ,1995      **Agrindex** ,1994      Whitaker's Books in Print ,1998      *Forthcoming Books* Rose Army,1995-02      *Statliga publikationer, årsbibliografi* ,1994      *Books in Print* ,1991

Different Management Regimes in a Boreal Forest Landscape Clas Fries,Tomas Lämås,2000 Five management regimes were theoretically applied and evaluated in a 10 000 ha boreal forest landscape Four regimes were designed to enhance conditions for biodiversity conservation by establishing reserves and by modifying stand management One regime was purely for timber production Effects on biodiversity were assessed in terms of changes in population sizes within species or as number of species within ecological groups of the Red listed species in the landscape Assessments were based on the effects of management regimes on natural features of significance to animal and plant diversity Effects on growing stock harvest level and economic return were assessed by means of the Forest Management Planning Package Results indicate that biodiversity can be preserved only if the landscape is managed to satisfy the demands of species that require continuity in habitat conditions and if management recognises fire generated successions in boreal forest Such management encompasses a system of patches managed so that important successional stages are always present in the landscape The regime based on traditional silviculture did not encompass such features and consequently did not maintain 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

**Different Management Regimes in a Boreal Forest Landscape** Carl Olof Tamm, Clas Fries, Johan S. Svensson, Lars Björklund, 1999      *Tableaux modernes aquarelles dessins et objets d'art* ,1874      **Studia Forestalia Suecica** ,1971

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