

KOMMISSION VI WORKINGGROUP VI-4

Jörg Henninger, Gerd Hildebrandt
Abt. Luftbildmessung und Luftbildinterpretation
Universität Freiburg Bundesrepublik Deutschland

BIBLIOGRAPHY OF PUBLICATIONS ON DAMAGE ASSESSMENT IN FORESTRY AND AGRICULTURE WITH REMOTE SENSING TECHNIQUES

SUMMARY

As a continuation of the publication "Bibliographie des Schrifttums auf dem Gebiet der forstlichen Luftbilddauswertung 1887 - 1968" by G. Hildebrandt (1969) a supplement work was undertaken within the limited framework of damage assessment in forestry and agriculture. The 769 references, which were registered up to the end of 1979, were entered into a computer and sorted with the help of the literature-processing system FAMULUS. This system, in addition to allowing alphabetical sorting according to arbitrary criteria (e.g. author, year of publication, titel, source etc.), also allows the construction of an author index and keyword index. With the help of a text-processing program (DOC-Processor), the text of this bibliography was brought into a form ready for printing, so that the publication could be photo-duplicated.

INTRODUCTION

As a continuation of the "Bibliographie des Schrifttums auf dem Gebiet der forstlichen Luftbilddauswertung 1887-1968" edited in 1969 by Prof. Dr. G. Hildebrandt all publications within the limited framework of forest damage assessment by remote sensing techniques began to be collected early in 1979. Soon thereafter the search was extended to the field of agriculture because of the strong relationship between the two fields. By the end of 1979 769 references had been collected in these two fields, of which more than 570 titels deal with forestry and about 250 titels with agriculture.

DATA COLLECTION

All publications concerned with the assessment, inventory, analysis and control of vegetation damages were listed, although they were not subdivided into different damage types and remote sensing techniques. the most important information -- as far as available -- was summarized under keywords, so that a keyword-index could be produced to faciliate the use of the bibliography.

It was not possible to examine individually all the sources cited. They were instead drawn to a great extend from existing bibliographies (e.g. P.M.Murtha, 1972: A Guide to Air Photo Interpretation of Forest Damage in Canada), special periodicals and publications with their cited literature. Therefore mistakes in the citation of source and titel may exist. In addition keywords could often be drawn only from the titel of a publication

and they may not properly characterize the content of a given work.

DATA PROCESSING

Because this bibliography is not intended as an isolated work but will instead be updated in the coming years, the main computer of the University of Freiburg was used to draw up and store the wealth of data. It was therefore of central importance to store the titles in such a way that it would be easy to sort them and find them according to specific criteria. Single publications were stored by authors name - year of publication - title - source - keywords and can be sorted with the same criteria.

A first edition containing about 630 titles was published in January 1980 as an appendix to the EARSEL/JRC-study "Potential of Multispectral Remote Sensing Systems (visible and IR) for the Detection of Vegetation Stresses" by Boehnel, Hildebrandt, Reichert et al.. Since then another 100 titles have been added to the bibliography.

After the listing was completed, all of the data was sorted with a special literature processing program called FAMULUS (from the Madison Academic Computer Center of the University of Wisconsin, Madison/Wisc., USA) in alphabetical order of the author's names. An author- and keyword-index was also produced. The titles were divided up according to forestry or agriculture in order to make it both easier for the user to find a special publication and to provide him with a better overview.

This bibliography produced by FAMULUS was brought into a form ready for printing by a special editing program called "DOC-Processor" (from the Sperry Rand Corp., Sperry-Univac). In this way the computer print-out could be used directly for photoduplication and typing dispensed with.

The restrictions of the FAMULUS program mean only capital letters can be used. Further umlauts (vowel-mutations) are not possible, so that "ae" has to be substituted for "ä" and so on.

CONCLUSION

The production of this bibliography was made possible by the financial contribution of the "Gesellschaft zur Förderung der Forst- und Holzwirtschaft (society for the promotion of the forest- and timbereconomy)" at the University of Freiburg and the "European Association of Remote Sensing Laboratories (EARSEL)".

We would like to update the bibliography continually during the next years so that new and more complete editions can be produced. We therefore ask all authors of publications in this field to inform us of the title and source of their work and to point out any mistakes the book may contain.

This "Bibliography of Publications on Damage Assessment in Forestry and Agriculture with Remote Sensing Techniques" can be ordered from:

Abt. Luftbildmessung und -interpretation
University of Freiburg

Erbprinzenstr. 17a

D-7800 Freiburg

West Germany