CONTENTS

INTRODUCTION .................................................. 1-3
GEOGRAPHICAL SET-UP .......................................... 4-9
MATERIALS AND METHODS ..................................... 10-13
OBSERVATIONS ..................................................14-53

Structure of cambium, 14
Ontogenetic alterations in the cambial make-up, 18
Seasonal alterations in the cambial make-up, 22
Structure of wood, 26
Ontogenetic alterations in the wood structure, 29
Seasonal variations in the wood structure, 32
Structure of bark, 37
Ontogenetic alterations in phloem, 42
Seasonal changes in phloem, 45
Periodicity of cambium, 49
Longevity of phloem, 52

DISCUSSION ..................................................... 54-85

Vascular cambium, 54
Wood, 63
Bark, 69
Periodicity of cambium, 74
Xylem and phloem production, 80
Longevity of phloem, 83

ABSTRACT .........................................................86-89
REFERENCES .................................................. 90-113
PHOTO PLATES ................................................ I-XXVI