

Contents

Preface	5
Phytosociology	6
Biocoenose, geobiocoenose, ecosystem – basic terms and relations	6
Plant-to environmental factor connections	9
Radiation	9
Atmosphere	17
Oxygen	18
Carbon dioxide CO ₂	18
Hydrosphere	19
Pedosphere	27
Mineral components	29
Organic components	29
Substrate dependent plants	30
Ellenberg's indication values	36
Plant-to-population relationships	38
Competition	38
Interaction caused by specific chemical matters	39
Trophic relationships	40
Epiphytism	40
Grazing influence	41
Plant expanded by human activity	42
Strategy of plant populations	43
Phytogeography	48
Chorology	48
Area	48
Area stability	49
Migration	50
Area centres	50
Disjunction	50
Relics	51
Endemism	51
Vicarism	52
Geoelements of flora	52
Regional phytogeography	53
Vegetation kingdoms	53
Holoarctic vegetation kingdom (Holoarctis)	54
Neotropic vegetation kingdom (Neotropis)	55
Paleotropic vegetation kingdom (Paleotropis)	55
Australian vegetation kingdom (Australis)	55
Cape vegetation kingdom (Capensis)	55
Antarctic vegetation kingdom (Antarctis)	56
Horizontal climate zones	56
Vertical climate zones	57
Historical phytogeography	59

Classification of Vegetation	60
Introduction to classifications	60
Physiognomic approach	61
History and major concepts	61
The physiognomic approach in biogeography	62
Physiognomic systems	62
The physiognomic approach to more areas, particularly in British Commonwealth countries	64
Dominance-types approach	65
Synusial approach	66
Braun-Blanquet approach (floristic)	67
Ecological factor of the environment approach	70
Numerical classification approach	70
Divisive monothetic (hierarchical)	71
Divisive polythetic classification	71
Agglomerative polythetic classification	72
Ordination of Communities	74
Direct gradient analysis	74
Indirect gradient analysis	75
Forest Classifications in several Countries	77
Literature Sourced	78
Forestry classifications in different countries of the world	attached CD
Czech forest ecosystem (Site) classification	attached CD
Landscape geobiocoenological typology	attached CD