

The Rodopi

The Rodopi is a large forested range of mountains dissected by deep valleys on the Greek-Bulgarian border. The highest peak (2188 m) is on the Bulgarian side, and the highest summit on the Greek side (1953 m) is also close to the border. The rivers Despátis (Dospat in Bulgarian), Limonas, Akroudorema and Diavolorema, all tributaries of the great Nestos, originate on the southern slopes of the range.

The eastern parts of the range (E of Diavolorema) refer to the area near Koula (Gyftokastro), which is on the border of the provinces (Nomi) Dramas and Xanthi. The name Rodopi thus includes only that part of the range restricted to the province of Dramas, from longitudes c. 24° 06'E to 24° 33'E. In Greece the range extends from Bulgaria to the border between the provinces of Rodopi and Evrou at latitude c. 41°19'N and longitude 25°54'E.

Several recently constructed forest roads now traverse this previously rather inaccessible area. A road from the village of Skaloti in the southwest ascends to the Zagradenia area at c. 1500 m where there are logging camps. It continues to the Likolakka area near the highest peak on the Greek side. In the eastern part of the range a road from Paranestio climbs to the vicinity of a military camp in an area called Gythotopos, c. 3 km from the border. The unnamed peaks of 1906 and 1839 m are situated c. 3 km and c. 5 km ESE of the peak of 1953 m.

The area is among the least developed in Europe. Much of the forest is in an almost virgin state with dense stands of *Picea abies* (the southernmost occurrence in Europe), *Pinus sylvestris* and *Fagus sylvatica*. It is still the home of large mammals such as brown bear, wolf, chamois and wild boar.

Few studies are available on the flora, vegetation, postglacial history and forest ecology of the Rodopi mountains.

The *Mountain Flora of Greece* (Strid 1986, Strid & Kit Tan 1991) deals mainly with species occurring above timberline but since the Rodopi is densely forested the work is not really relevant. The main floristic publication for the Greek part of the Central Rodopi is a paper by Eleftheriadou & Raus (1996) on the Frakto Virgin Forest (Partheno Dhasos). This is a protected area of c. 1000 hectares near the Bulgarian border. There are also some floristic publications on the areas immediately southwards, e.g., the Nestos river gorge (Voliotis 1984).

Post-glacial vegetation development and present-day plant communities in the area have been studied by Athanasiadis & al. (1993), Karagiannakidou & al. (1995) and Zoller & al. (1977). The last-mentioned is the only publication to include extensive data on mosses as well as vascular plants. Phytogeographical aspects are dealt with more generally by Strid (1993) in the context of a survey on Greek mountains.

Nature conservation and sustainable development are discussed in recent papers by Böhr (1989), Lagopoulos (1989) and Lienau (1989). On the Bulgarian side of the Rodopi there are

some recent studies on the flora and vegetation, with information provided by the multi-volume *Flora na Balgarija*.

Objective of the project

One of the objectives of the project is to study the natural flora and vegetation of the Rodopi mountains with special emphasis on conservational aspects and sustainable development of forest resources.

A draft inventory of the vascular plants of the area has now been completed and is attached to this report.

The low population density and the low degree of economic development in the villages, many of which are semi-deserted, as well as the relative inaccessibility and military sensitivity of the border area are factors that have contributed to retaining a vast amount of virtually undisturbed woodland habitats. The biological diversity of the area is very high.

The Floristic Checklist and some photographs are separately attached.

Floristic checklist for the Rhodopi mountains (unpublished document, not to be copied)

Aceraceae *Acer campestre*
Aceraceae *Acer heldreichii*
Aceraceae *Acer hyrcanum*
Aceraceae *Acer hyrcanum intermedium*
Aceraceae *Acer pseudoplatanus*
Adoxaceae *Adoxa moschatellina*
Amaranthaceae *Amaranthus blitoides*
Amaranthaceae *Amaranthus powellii*
Amaranthaceae *Amaranthus retroflexus*
Amaryllidaceae *Galanthus elwesii*
Apiaceae *Aegopodium podagraria*
Apiaceae *Angelica sylvestris*
Apiaceae *Apium nodiflorum*
Apiaceae *Chaerophyllum aureum*
Apiaceae *Chaerophyllum bulbosum*
Apiaceae *Chaerophyllum hirsutum*
Apiaceae *Chaerophyllum temulum*
Apiaceae *Conium maculatum*
Apiaceae *Daucus carota*
Apiaceae *Eryngium campestre*
Apiaceae *Ferulago sylvatica confusa*
Apiaceae *Heracleum sphondylium*
Apiaceae *Heracleum sphondylium ternatum*
Apiaceae *Heracleum sphondylium verticillatum*
Apiaceae *Laser trilobum*
Apiaceae *Oenanthe banatica*
Apiaceae *Oenanthe montis-korthiati*
Apiaceae *Oenanthe silaifolia*
Apiaceae *Orlaya daucorlaya*
Apiaceae *Pastinaca hirsuta*
Apiaceae *Pastinaca sativa*
Apiaceae *Pastinaca sativa urens*
Apiaceae *Peucedanum austriacum*
Apiaceae *Physospermum cornubiense*
Apiaceae *Pimpinella saxifraga*
Apiaceae *Sanicula europaea*
Apiaceae *Selinum silaifolium*
Apiaceae *Seseli libanotis intermedium*
Apiaceae *Seseli peucedanoides*
Apiaceae *Seseli rigidum*
Apiaceae *Tordylium maximum*
Apiaceae *Torilis japonica*
Araceae *Arum maculatum*
Aristolochiaceae *Aristolochia clematitis*
Asclepiadaceae *Vincetoxicum hirundinaria*
Asclepiadaceae *Vincetoxicum hirundinaria hirundinaria*
Asclepiadaceae *Vincetoxicum hirundinaria nivale*

Asteraceae *Achillea clypeolata*
Asteraceae *Achillea collina*
Asteraceae *Achillea crithmifolia*
Asteraceae *Achillea grandifolia*
Asteraceae *Achillea millefolium*
Asteraceae *Achillea pannonica*
Asteraceae *Adenostyles alliariae*
Asteraceae *Anthemis cretica*
Asteraceae *Anthemis macedonica*
Asteraceae *Anthemis orbelica*
Asteraceae *Anthemis tinctoria*
Asteraceae *Anthemis tinctoria tinctoria*
Asteraceae *Arctium lappa*
Asteraceae *Arctium minus*
Asteraceae *Artemisia vulgaris*
Asteraceae *Carduus candicans*
Asteraceae *Carduus kernerii*
Asteraceae *Carduus kernerii scardicus*
Asteraceae *Carduus macrocephalus*
Asteraceae *Carduus personata albidus*
Asteraceae *Carduus thoermeri*
Asteraceae *Carduus tmoleus*
Asteraceae *Carlina acanthifolia*
Asteraceae *Carlina vulgaris*
Asteraceae *Carlina vulgaris intermedia*
Asteraceae *Centaurea affinis*
Asteraceae *Centaurea affinis affinis*
Asteraceae *Centaurea affinis pallidior*
Asteraceae *Centaurea cuneifolia*
Asteraceae *Centaurea cuneifolia pallida*
Asteraceae *Centaurea grisebachii*
Asteraceae *Centaurea napulifera napulifera*
Asteraceae *Centaurea nervosa*
Asteraceae *Centaurea nervosa nervosa*
Asteraceae *Centaurea scabiosa*
Asteraceae *Centaurea stenolepis*
Asteraceae *Chondrilla juncea*
Asteraceae *Cicerbita alpina*
Asteraceae *Cichorium intybus*
Asteraceae *Cirsium appendiculatum*
Asteraceae *Cirsium arvense*
Asteraceae *Cirsium candelabrum*
Asteraceae *Cirsium creticum*
Asteraceae *Cirsium ligulare*
Asteraceae *Cirsium vulgare*
Asteraceae *Conyza canadensis*
Asteraceae *Crepis biennis*
Asteraceae *Crepis conyzifolia*
Asteraceae *Crupina vulgaris*
Asteraceae *Doronicum austriacum*

Asteraceae *Doronicum columnae*
Asteraceae *Echinops sphaerocephalus albidus*
Asteraceae *Echinops sphaerocephalus sphaerocephalus*
Asteraceae *Erigeron acer*
Asteraceae *Eupatorium cannabinum*
Asteraceae *Filago arvensis*
Asteraceae *Filago minima*
Asteraceae *Filago vulgaris*
Asteraceae *Galinsoga parviflora*
Asteraceae *Gnaphalium sylvaticum*
Asteraceae *Hieracium caespitosum*
Asteraceae *Hieracium caespitosum brevipilum*
Asteraceae *Hieracium cymosum sabinum*
Asteraceae *Hieracium gaudryi*
Asteraceae *Hieracium grandidens*
Asteraceae *Hieracium hoppeanum*
Asteraceae *Hieracium hoppeanum pilisquamum*
Asteraceae *Hieracium hoppeanum testimoniale*
Asteraceae *Hieracium integratum*
Asteraceae *Hieracium olympicum*
Asteraceae *Hieracium pannosum*
Asteraceae *Hieracium piloselloides*
Asteraceae *Hieracium racemosum*
Asteraceae *Hieracium schmidtii*
Asteraceae *Hieracium sparsum*
Asteraceae *Hieracium umbellatum*
Asteraceae *Hypochoeris maculata*
Asteraceae *Hypochoeris radicata*
Asteraceae *Inula bifrons*
Asteraceae *Inula conyzae*
Asteraceae *Inula ensifolia*
Asteraceae *Inula hirta*
Asteraceae *Inula oculus-christi*
Asteraceae *Inula verbascifolia*
Asteraceae *Inula verbascifolia aschersoniana*
Asteraceae *Jurinea mollis*
Asteraceae *Lactuca viminea viminea*
Asteraceae *Lapsana communis adenophora*
Asteraceae *Leontodon autumnalis*
Asteraceae *Leontodon crispus*
Asteraceae *Leontodon hispidus*
Asteraceae *Leucanthemum praecox*
Asteraceae *Leucanthemum vulgare*
Asteraceae *Matricaria trichophylla*
Asteraceae *Mycelis muralis*
Asteraceae *Petasites hybridus ochroleucus*
Asteraceae *Prenanthes purpurea*
Asteraceae *Ptilostemon afer*
Asteraceae *Pulicaria dysenterica*
Asteraceae *Scorzonera laciniata*

Asteraceae Senecio germanicus
Asteraceae Senecio hercynicus
Asteraceae Senecio squalidus
Asteraceae Senecio sylvaticus
Asteraceae Senecio viscosus
Asteraceae Senecio vulgaris
Asteraceae Solidago virgaurea
Asteraceae Sonchus asper asper
Asteraceae Tanacetum corymbosum
Asteraceae Tanacetum parthenium
Asteraceae Telekia speciosa
Asteraceae Tragopogon balcanicus
Asteraceae Tragopogon crocifolius samaritani
Asteraceae Tragopogon pratensis orientalis
Asteraceae Tussilago farfara
Balsaminaceae Impatiens noli-tangere
Betulaceae Alnus glutinosa
Betulaceae Alnus incana
Betulaceae Betula pendula
Betulaceae Carpinus betulus
Betulaceae Carpinus orientalis
Betulaceae Corylus avellana
Betulaceae Ostrya carpinifolia
Boraginaceae Anchusa officinalis
Boraginaceae Buglossoides arvensis arvensis
Boraginaceae Cynoglossum officinale
Boraginaceae Cynoglottis barrelieri
Boraginaceae Cynoglottis barrelieri barrelieri
Boraginaceae Echium vulgare
Boraginaceae Lithospermum purpurocaeruleum
Boraginaceae Myosotis arvensis
Boraginaceae Myosotis laxa caespitosa
Boraginaceae Myosotis minutiflora
Boraginaceae Myosotis nemorosa
Boraginaceae Myosotis ramosissima ramosissima
Boraginaceae Myosotis sicula
Boraginaceae Myosotis sylvatica
Boraginaceae Myosotis sylvatica cyanea
Boraginaceae Myosotis sylvatica subarvensis
Boraginaceae Pulmonaria officinalis
Boraginaceae Pulmonaria rubra
Boraginaceae Symphytum ottomanum
Boraginaceae Symphytum tuberosum
Brassicaceae Aethionema saxatile
Brassicaceae Alliaria petiolata
Brassicaceae Alyssum alyssoides
Brassicaceae Alyssum corymbosoides
Brassicaceae Alyssum murale
Brassicaceae Arabidopsis thaliana
Brassicaceae Arabis glabra

Brassicaceae *Arabis sagittata*
 Brassicaceae *Arabis turrata*
 Brassicaceae *Barbarea vulgaris*
 Brassicaceae *Berteroa incana*
 Brassicaceae *Berteroa obliqua obliqua*
 Brassicaceae *Brassica rapa campestris*
 Brassicaceae *Camelina microcarpa*
 Brassicaceae *Capsella bursa-pastoris*
 Brassicaceae *Cardamine amara*
 Brassicaceae *Cardamine amara balcanica*
 Brassicaceae *Cardamine bulbifera*
 Brassicaceae *Cardamine impatiens*
 Brassicaceae *Cardamine impatiens impatiens*
 Brassicaceae *Cardamine impatiens pectinata*
 Brassicaceae *Cardaminopsis halleri halleri*
 Brassicaceae *Clypeola jonthlaspi*
 Brassicaceae *Descurainia sophia*
 Brassicaceae *Erophila verna*
 Brassicaceae *Erysimum crassistylum*
 Brassicaceae *Lepidium campestre*
 Brassicaceae *Lepidium draba*
 Brassicaceae *Rorippa pyrenaica*
 Brassicaceae *Rorippa sylvestris*
 Brassicaceae *Rorippa thracica*
 Brassicaceae *Sinapis arvensis*
 Brassicaceae *Sisymbrium altissimum*
 Brassicaceae *Thlaspi arvense*
 Brassicaceae *Thlaspi kovatsii*
 Brassicaceae *Thlaspi perfoliatum perfoliatum*
 Campanulaceae *Asyneuma limonifolium*
 Campanulaceae *Campanula cervicaria*
 Campanulaceae *Campanula lingulata*
 Campanulaceae *Campanula moesiaca*
 Campanulaceae *Campanula patula*
 Campanulaceae *Campanula patula patula*
 Campanulaceae *Campanula persicifolia*
 Campanulaceae *Campanula rapunculoides*
 Campanulaceae *Campanula rapunculus*
 Campanulaceae *Campanula rotundifolia*
 Campanulaceae *Campanula sparsa*
 Campanulaceae *Campanula sparsa sphaerotherix*
 Campanulaceae *Campanula trachelium athoa*
 Campanulaceae *Jasione heldreichii*
 Campanulaceae *Symphyandra wanneri*
 Caprifoliaceae *Lonicera xylosteum*
 Caprifoliaceae *Sambucus ebulus*
 Caprifoliaceae *Sambucus nigra*
 Caprifoliaceae *Sambucus racemosa*
 Caryophyllaceae *Arenaria filicaulis filicaulis*
 Caryophyllaceae *Arenaria rotundifolia*

Caryophyllaceae *Arenaria serpyllifolia*
Caryophyllaceae *Cerastium banaticum banaticum*
Caryophyllaceae *Cerastium fontanum vulgare*
Caryophyllaceae *Cerastium rectum petricola*
Caryophyllaceae *Cerastium rectum rectum*
Caryophyllaceae *Dianthus armeria*
Caryophyllaceae *Dianthus cruentus*
Caryophyllaceae *Dianthus deltoides deltoides*
Caryophyllaceae *Dianthus giganteus*
Caryophyllaceae *Dianthus gracilis*
Caryophyllaceae *Dianthus gracilis drenowskianus*
Caryophyllaceae *Dianthus gracilis gracilis*
Caryophyllaceae *Dianthus petraeus orbelicus*
Caryophyllaceae *Dianthus pinifolius*
Caryophyllaceae *Dianthus pinifolius pinifolius*
Caryophyllaceae *Dianthus pinifolius serbicus*
Caryophyllaceae *Dianthus pinifolius tenuicaulis*
Caryophyllaceae *Dianthus strymonis*
Caryophyllaceae *Dianthus superbus*
Caryophyllaceae *Dianthus viscidus*
Caryophyllaceae *Gypsophila muralis*
Caryophyllaceae *Herniaria glabra*
Caryophyllaceae *Herniaria nigrimontium*
Caryophyllaceae *Minuartia glomerata glomerata*
Caryophyllaceae *Minuartia hirsuta falcata*
Caryophyllaceae *Minuartia recurva*
Caryophyllaceae *Minuartia recurva condensata*
Caryophyllaceae *Minuartia recurva recurva*
Caryophyllaceae *Minuartia saxifraga*
Caryophyllaceae *Minuartia verna*
Caryophyllaceae *Minuartia verna collina*
Caryophyllaceae *Minuartia verna verna*
Caryophyllaceae *Minuartia viscosa*
Caryophyllaceae *Moehringia pendula*
Caryophyllaceae *Moehringia trinervia*
Caryophyllaceae *Moenchia mantica*
Caryophyllaceae *Petrorhagia prolifera*
Caryophyllaceae *Sagina procumbens*
Caryophyllaceae *Sagina saginoides*
Caryophyllaceae *Saponaria glutinosa*
Caryophyllaceae *Saponaria officinalis*
Caryophyllaceae *Scleranthus annuus annuus*
Caryophyllaceae *Scleranthus perennis*
Caryophyllaceae *Scleranthus perennis dichotomus*
Caryophyllaceae *Scleranthus perennis marginatus*
Caryophyllaceae *Scleranthus perennis perennis*
Caryophyllaceae *Silene armeria*
Caryophyllaceae *Silene atropurpurea*
Caryophyllaceae *Silene coronaria*
Caryophyllaceae *Silene dichotoma*

Caryophyllaceae *Silene fabarioides*
Caryophyllaceae *Silene flavescens*
Caryophyllaceae *Silene flavescens flavescens*
Caryophyllaceae *Silene frivaldszkyana*
Caryophyllaceae *Silene gallinyi*
Caryophyllaceae *Silene gigantea rhodopea*
Caryophyllaceae *Silene heuffelii*
Caryophyllaceae *Silene italica*
Caryophyllaceae *Silene italica italica*
Caryophyllaceae *Silene latifolia*
Caryophyllaceae *Silene lerchenfeldiana*
Caryophyllaceae *Silene noctiflora*
Caryophyllaceae *Silene otites*
Caryophyllaceae *Silene roemeri roemeri*
Caryophyllaceae *Silene sendtneri balcanica*
Caryophyllaceae *Silene subconica*
Caryophyllaceae *Silene viridiflora*
Caryophyllaceae *Silene vulgaris*
Caryophyllaceae *Silene vulgaris bosniaca*
Caryophyllaceae *Silene waldsteinii*
Caryophyllaceae *Spergula arvensis*
Caryophyllaceae *Spergularia rubra*
Caryophyllaceae *Stellaria aquatica*
Caryophyllaceae *Stellaria graminea*
Caryophyllaceae *Stellaria media*
Caryophyllaceae *Stellaria nemorum*
Caryophyllaceae *Stellaria nemorum nemorum*
Celastraceae *Euonymus latifolius*
Celastraceae *Euonymus verrucosus*
Chenopodiaceae *Chenopodium album*
Chenopodiaceae *Chenopodium bonus-henricus*
Chenopodiaceae *Chenopodium foliosum*
Chenopodiaceae *Chenopodium hybridum*
Cistaceae *Helianthemum nummularium nummularium*
Cistaceae *Helianthemum nummularium tomentosum*
Convolvulaceae *Convolvulus arvensis*
Convolvulaceae *Cuscuta approximata*
Convolvulaceae *Cuscuta epithimum epithimum*
Convolvulaceae *Cuscuta europaea*
Convolvulaceae *Cuscuta planiflora*
Cornaceae *Cornus mas*
Cornaceae *Cornus sanguinea*
Crassulaceae *Sedum acre*
Crassulaceae *Sedum album*
Crassulaceae *Sedum annuum*
Crassulaceae *Sedum grisebachii*
Crassulaceae *Sedum hispanicum*
Crassulaceae *Sedum urvillei*
Crassulaceae *Sempervivum heuffelii*
Crassulaceae *Sempervivum marmoreum marmoreum*

Cupressaceae *Juniperus communis*
Cupressaceae *Juniperus communis communis*
Cupressaceae *Juniperus communis nana*
Cupressaceae *Juniperus oxycedrus oxycedrus*
Cyperaceae *Carex canescens*
Cyperaceae *Carex caryophyllea*
Cyperaceae *Carex demissa*
Cyperaceae *Carex digitata*
Cyperaceae *Carex echinata*
Cyperaceae *Carex flacca flacca*
Cyperaceae *Carex flacca serrulata*
Cyperaceae *Carex flava*
Cyperaceae *Carex hirta*
Cyperaceae *Carex muricata*
Cyperaceae *Carex nigra*
Cyperaceae *Carex ovalis*
Cyperaceae *Carex pallescens*
Cyperaceae *Carex pendula*
Cyperaceae *Carex punctata*
Cyperaceae *Carex remota*
Cyperaceae *Carex rostrata*
Cyperaceae *Carex serotina*
Cyperaceae *Carex spicata*
Cyperaceae *Carex sylvatica*
Cyperaceae *Carex tomentosa*
Cyperaceae *Eleocharis palustris*
Cyperaceae *Eriophorum angustifolium*
Cyperaceae *Eriophorum latifolium*
Cyperaceae *Scirpus sylvaticus*
Dipsacaceae *Cephalaria flava*
Dipsacaceae *Cephalaria flava flava*
Dipsacaceae *Knautia ambigua*
Dipsacaceae *Knautia arvensis*
Dipsacaceae *Knautia drymeia*
Dipsacaceae *Knautia drymeia nympharum*
Dipsacaceae *Knautia macedonica*
Dipsacaceae *Knautia magnifica*
Dipsacaceae *Knautia midzorensis*
Dipsacaceae *Scabiosa columbaria ochroleuca*
Dipsacaceae *Scabiosa ochroleuca*
Dipsacaceae *Scabiosa triniifolia*
Dipsacaceae *Scabiosa webbiana*
Droseraceae *Drosera rotundifolia*
Equisetaceae *Equisetum arvense*
Equisetaceae *Equisetum palustre*
Ericaceae *Bruckenthalia spiculifolia*
Ericaceae *Vaccinium myrtillus*
Ericaceae *Vaccinium vitis-idaea*
Euphorbiaceae *Euphorbia amygdaloides*
Euphorbiaceae *Euphorbia amygdaloides amygdaloides*

Euphorbiaceae *Euphorbia cyparissias*
Euphorbiaceae *Euphorbia epithymoides*
Euphorbiaceae *Euphorbia myrsinites*
Euphorbiaceae *Euphorbia seguieriana niciciana*
Euphorbiaceae *Euphorbia stricta*
Euphorbiaceae *Mercurialis perennis*
Fabaceae *Amorpha fruticosa*
Fabaceae *Anthyllis vulneraria bulgarica*
Fabaceae *Astragalus depressus*
Fabaceae *Astragalus glycyphyllos*
Fabaceae *Astragalus glycyphyllos glycyphyllos*
Fabaceae *Astragalus monspessulanus*
Fabaceae *Astragalus onobrychis*
Fabaceae *Chamaecytisus absinthioides*
Fabaceae *Chamaecytisus albus*
Fabaceae *Chamaecytisus eriocarpus*
Fabaceae *Chamaecytisus hirsutus*
Fabaceae *Chamaespartium sagittale*
Fabaceae *Colutea arborescens*
Fabaceae *Cytisus procumbens*
Fabaceae *Dorycnium pentaphyllum herbaceum*
Fabaceae *Genista carinalis*
Fabaceae *Genista depressa*
Fabaceae *Genista lydia*
Fabaceae *Genista tinctoria*
Fabaceae *Hippocrepis emerus emeroides*
Fabaceae *Lathyrus laxiflorus*
Fabaceae *Lathyrus niger*
Fabaceae *Lathyrus nissolia*
Fabaceae *Lathyrus pratensis*
Fabaceae *Lathyrus venetus*
Fabaceae *Lotus corniculatus*
Fabaceae *Lotus tenuis*
Fabaceae *Medicago lupulina*
Fabaceae *Medicago minima*
Fabaceae *Melilotus albus*
Fabaceae *Melilotus altissimus*
Fabaceae *Onobrychis alba*
Fabaceae *Onobrychis alba alba*
Fabaceae *Onobrychis gracilis*
Fabaceae *Ononis spinosa arvensis*
Fabaceae *Securigera varia*
Fabaceae *Trifolium alpestre*
Fabaceae *Trifolium angustifolium*
Fabaceae *Trifolium arvense*
Fabaceae *Trifolium aureum*
Fabaceae *Trifolium campestre*
Fabaceae *Trifolium dalmaticum*
Fabaceae *Trifolium heldreichianum*
Fabaceae *Trifolium hirtum*

Fabaceae *Trifolium hybridum elegans*
Fabaceae *Trifolium hybridum hybridum*
Fabaceae *Trifolium medium*
Fabaceae *Trifolium medium balcanicum*
Fabaceae *Trifolium ochroleucon*
Fabaceae *Trifolium ochroleucon ochroleucon*
Fabaceae *Trifolium pratense*
Fabaceae *Trifolium purpureum*
Fabaceae *Trifolium repens*
Fabaceae *Trifolium spadiceum*
Fabaceae *Trifolium strictum*
Fabaceae *Trifolium tenuifolium*
Fabaceae *Trifolium trichopterum*
Fabaceae *Vicia cassubica*
Fabaceae *Vicia cracca incana*
Fabaceae *Vicia grandiflora*
Fabaceae *Vicia hirsuta*
Fabaceae *Vicia sativa cordata*
Fabaceae *Vicia sativa nigra*
Fabaceae *Vicia sepium*
Fabaceae *Vicia tenuifolia dalmatica*
Fabaceae *Vicia tetrasperma*
Fabaceae *Vicia villosa villosa*
Fagaceae *Fagus sylvatica*
Fagaceae *Fagus sylvatica sylvatica*
Fagaceae *Quercus cerris*
Fagaceae *Quercus frainetto*
Fagaceae *Quercus petraea*
Fagaceae *Quercus petraea medwediewii*
Fagaceae *Quercus petraea petraea*
Fagaceae *Quercus pubescens*
Gentianaceae *Centaurium erythraea*
Gentianaceae *Centaurium erythraea erythraea*
Gentianaceae *Gentiana asclepiadea*
Gentianaceae *Gentiana cruciata*
Gentianaceae *Gentiana symphyandra*
Gentianaceae *Gentianella bulgarica*
Gentianaceae *Gentianella ciliata*
Geraniaceae *Erodium cicutarium*
Geraniaceae *Geranium divaricatum*
Geraniaceae *Geranium macrorrhizum*
Geraniaceae *Geranium molle brutium*
Geraniaceae *Geranium pyrenaicum*
Geraniaceae *Geranium robertianum*
Geraniaceae *Geranium robertianum robertianum*
Geraniaceae *Geranium sanguineum*
Geraniaceae *Geranium sylvaticum*
Gesneriaceae *Haberlea rhodopensis*
Globulariaceae *Globularia bisnagarica*
Grossulariaceae *Ribes alpinum*

Hypericaceae *Hypericum cerastoides*
Hypericaceae *Hypericum hirsutum*
Hypericaceae *Hypericum maculatum*
Hypericaceae *Hypericum maculatum immaculatum*
Hypericaceae *Hypericum montbretii*
Hypericaceae *Hypericum olympicum*
Hypericaceae *Hypericum perforatum*
Hypericaceae *Hypericum quadrangulum*
Iridaceae *Crocus chrysanthus*
Iridaceae *Crocus pulchellus*
Iridaceae *Crocus veluchensis*
Juglandaceae *Juglans regia*
Juncaceae *Juncus acutiflorus*
Juncaceae *Juncus articulatus*
Juncaceae *Juncus bufonius*
Juncaceae *Juncus capitatus*
Juncaceae *Juncus compressus*
Juncaceae *Juncus conglomeratus*
Juncaceae *Juncus effusus*
Juncaceae *Juncus filiformis*
Juncaceae *Juncus inflexus*
Juncaceae *Juncus pygmaeus*
Juncaceae *Juncus thomasi*
Juncaceae *Luzula luzulina*
Juncaceae *Luzula luzuloides*
Juncaceae *Luzula luzuloides cuprina*
Juncaceae *Luzula luzuloides luzuloides*
Juncaceae *Luzula multiflora*
Juncaceae *Luzula sylvatica*
Lamiaceae *Acinos alpinus*
Lamiaceae *Acinos alpinus majoranifolius*
Lamiaceae *Acinos alpinus nomismophyllus*
Lamiaceae *Acinos arvensis*
Lamiaceae *Ajuga genevensis*
Lamiaceae *Ajuga pyramidalis*
Lamiaceae *Ajuga reptans*
Lamiaceae *Calamintha adscendens*
Lamiaceae *Calamintha sylvatica*
Lamiaceae *Clinopodium vulgare*
Lamiaceae *Clinopodium vulgare vulgare*
Lamiaceae *Galeobdolon luteum*
Lamiaceae *Galeopsis bifida*
Lamiaceae *Galeopsis ladanum*
Lamiaceae *Galeopsis speciosa*
Lamiaceae *Galeopsis tetrahit*
Lamiaceae *Lamium garganicum*
Lamiaceae *Lamium garganicum laevigatum*
Lamiaceae *Lamium maculatum*
Lamiaceae *Leonurus cardiaca*
Lamiaceae *Melissa officinalis altissima*

Lamiaceae *Mentha longifolia*
Lamiaceae *Micromeria dalmatica bulgarica*
Lamiaceae *Nepeta nuda nuda*
Lamiaceae *Origanum vulgare*
Lamiaceae *Origanum vulgare vulgare*
Lamiaceae *Prunella laciniata*
Lamiaceae *Prunella vulgaris*
Lamiaceae *Salvia glutinosa*
Lamiaceae *Salvia verticillata*
Lamiaceae *Satureja montana*
Lamiaceae *Scutellaria albida*
Lamiaceae *Scutellaria albida perhispidata*
Lamiaceae *Sideritis montana montana*
Lamiaceae *Stachys alpina*
Lamiaceae *Stachys angustifolia*
Lamiaceae *Stachys germanica germanica*
Lamiaceae *Stachys officinalis*
Lamiaceae *Stachys recta*
Lamiaceae *Stachys recta recta*
Lamiaceae *Stachys sylvatica*
Lamiaceae *Stachys tymphaea*
Lamiaceae *Teucrium chamaedrys*
Lamiaceae *Teucrium chamaedrys chamaedrys*
Lamiaceae *Teucrium montanum*
Lamiaceae *Teucrium montanum montanum*
Lamiaceae *Thymus atticus*
Lamiaceae *Thymus degenii*
Lamiaceae *Thymus sibthorpii*
Lamiaceae *Thymus thracicus*
Liliaceae *Allium flavum*
Liliaceae *Allium flavum flavum*
Liliaceae *Allium melanantherum*
Liliaceae *Allium oleraceum*
Liliaceae *Allium sphaerocephalon*
Liliaceae *Allium stamineum*
Liliaceae *Colchicum autumnale*
Liliaceae *Erythronium dens-canis*
Liliaceae *Gagea lutea*
Liliaceae *Lilium martagon*
Liliaceae *Lilium rhodopeum*
Liliaceae *Muscari botryoides*
Liliaceae *Muscari comosum*
Liliaceae *Ornithogalum divergens*
Liliaceae *Ornithogalum kochii*
Liliaceae *Ornithogalum montanum*
Liliaceae *Ornithogalum umbellatum*
Liliaceae *Paris quadrifolia*
Liliaceae *Polygonatum multiflorum*
Liliaceae *Polygonatum odoratum*
Liliaceae *Polygonatum verticillatum*

Liliaceae *Scilla bifolia*
Liliaceae *Veratrum album*
Linaceae *Linum capitatum capitatum*
Linaceae *Linum catharticum*
Linaceae *Linum hirsutum hirsutum*
Linaceae *Linum hologynum*
Linaceae *Linum tenuifolium*
Linaceae *Linum trigynum*
Linaceae *Radiola linoides*
Loranthaceae *Arceuthobium oxycedri*
Lythraceae *Lythrum salicaria*
Malvaceae *Lavatera thuringiaca ambigua*
Malvaceae *Lavatera thuringiaca thuringiaca*
Malvaceae *Malva neglecta*
Oleaceae *Fraxinus ornus*
Oleaceae *Syringa vulgaris*
Onagraceae *Circaea lutetiana*
Onagraceae *Epilobium angustifolium*
Onagraceae *Epilobium collinum*
Onagraceae *Epilobium dodonaei*
Onagraceae *Epilobium hirsutum*
Onagraceae *Epilobium lanceolatum*
Onagraceae *Epilobium montanum*
Onagraceae *Epilobium obscurum*
Onagraceae *Epilobium palustre*
Onagraceae *Epilobium parviflorum*
Onagraceae *Epilobium roseum*
Onagraceae *Epilobium tetragonum lamyi*
Ophioglossaceae *Botrychium lunaria*
Orchidaceae *Anacamptis pyramidalis*
Orchidaceae *Cephalanthera damasonium*
Orchidaceae *Cephalanthera longifolia*
Orchidaceae *Cephalanthera rubra*
Orchidaceae *Corallorhiza trifida*
Orchidaceae *Dactylorhiza cordigera*
Orchidaceae *Dactylorhiza saccifera*
Orchidaceae *Dactylorhiza sambucina*
Orchidaceae *Epipactis helleborine*
Orchidaceae *Epipactis palustris*
Orchidaceae *Gymnadenia conopsea*
Orchidaceae *Himantoglossum caprinum*
Orchidaceae *Listera cordata*
Orchidaceae *Listera ovata*
Orchidaceae *Neottia nidus-avis*
Orchidaceae *Orchis mascula*
Orchidaceae *Orchis pallens*
Orchidaceae *Orchis purpurea*
Orchidaceae *Orchis ustulata*
Orchidaceae *Platanthera bifolia*
Orchidaceae *Platanthera chlorantha*

Orobanchaceae *Orobanche alba*
Oxalidaceae *Oxalis acetosella*
Oxalidaceae *Oxalis corniculata*
Papaveraceae *Corydalis solida*
Papaveraceae *Papaver dubium*
Parnassiaceae *Parnassia palustris*
Pinaceae *Abies alba*
Pinaceae *Abies borisii-regis*
Pinaceae *Picea abies*
Pinaceae *Picea abies abies*
Pinaceae *Pinus nigra*
Pinaceae *Pinus nigra nigra*
Pinaceae *Pinus peuce*
Pinaceae *Pinus sylvestris*
Plantaginaceae *Plantago holosteum*
Plantaginaceae *Plantago lanceolata*
Plantaginaceae *Plantago major major*
Plantaginaceae *Plantago media*
Plantaginaceae *Plantago media media*
Plumbaginaceae *Armeria canescens*
Plumbaginaceae *Armeria rumelica*
Poaceae *Agrostis canina*
Poaceae *Agrostis capillaris*
Poaceae *Agrostis castellana*
Poaceae *Agrostis gigantea*
Poaceae *Agrostis stolonifera*
Poaceae *Agrostis vinealis*
Poaceae *Alopecurus aequalis*
Poaceae *Alopecurus geniculatus*
Poaceae *Anthoxanthum odoratum*
Poaceae *Bellardiochloa variegata*
Poaceae *Brachypodium pinnatum*
Poaceae *Brachypodium sylvaticum*
Poaceae *Brachypodium sylvaticum sylvaticum*
Poaceae *Briza media*
Poaceae *Briza media elatior*
Poaceae *Bromus benekenii*
Poaceae *Bromus hordeaceus*
Poaceae *Bromus racemosus*
Poaceae *Bromus ramosus*
Poaceae *Bromus squarrosus*
Poaceae *Bromus tectorum*
Poaceae *Calamagrostis arundinacea*
Poaceae *Calamagrostis epigejos*
Poaceae *Calamagrostis pseudophragmites*
Poaceae *Calamagrostis varia*
Poaceae *Chrysopogon gryllus*
Poaceae *Cynosurus cristatus*
Poaceae *Dactylis glomerata*
Poaceae *Dactylis glomerata glomerata*

Poaceae *Danthonia decumbens*
Poaceae *Dasypyrum villosum*
Poaceae *Deschampsia cespitosa*
Poaceae *Deschampsia flexuosa*
Poaceae *Elymus caninus*
Poaceae *Elymus repens*
Poaceae *Festuca gigantea*
Poaceae *Festuca heterophylla*
Poaceae *Festuca oviformis*
Poaceae *Festuca peristerea*
Poaceae *Festuca polita*
Poaceae *Festuca pratensis*
Poaceae *Festuca rubra*
Poaceae *Festuca valesiaca*
Poaceae *Glyceria plicata*
Poaceae *Holcus lanatus*
Poaceae *Holcus mollis*
Poaceae *Hordelymus europaeus*
Poaceae *Hordeum vulgare*
Poaceae *Koeleria cristata*
Poaceae *Lolium perenne*
Poaceae *Melica nutans*
Poaceae *Melica uniflora*
Poaceae *Milium effusum*
Poaceae *Molinia caerulea*
Poaceae *Nardus stricta*
Poaceae *Phleum montanum*
Poaceae *Phleum pratense*
Poaceae *Poa annua*
Poaceae *Poa bulbosa bulbosa*
Poaceae *Poa compressa*
Poaceae *Poa glauca glauca*
Poaceae *Poa hybrida*
Poaceae *Poa media*
Poaceae *Poa nemoralis*
Poaceae *Poa palustris*
Poaceae *Poa pratensis*
Poaceae *Poa pratensis angustifolia*
Poaceae *Poa trivialis trivialis*
Poaceae *Rostraria cristata*
Poaceae *Stipa pennata*
Polygalaceae *Polygala anatolica*
Polygalaceae *Polygala comosa*
Polygalaceae *Polygala major*
Polygalaceae *Polygala nicaeensis carniolica*
Polygonaceae *Fallopia convolvulus*
Polygonaceae *Fallopia dumetorum*
Polygonaceae *Persicaria alpina*
Polygonaceae *Persicaria maculosa*
Polygonaceae *Polygonum aviculare*

Polygonaceae Polygonum aviculare rurivagum
Polygonaceae Rumex acetosella
Polygonaceae Rumex acetosella acetoselloides
Polygonaceae Rumex aquaticus
Polygonaceae Rumex arifolius
Polygonaceae Rumex conglomeratus
Polygonaceae Rumex crispus
Polygonaceae Rumex obtusifolius
Polygonaceae Rumex obtusifolius subalpinus
Polygonaceae Rumex pulcher pulcher
Polygonaceae Rumex sanguineus
Polygonaceae Rumex thyrsiflorus
Polypodiaceae Asplenium adiantum-nigrum
Polypodiaceae Asplenium ceterach
Polypodiaceae Asplenium onopteris
Polypodiaceae Asplenium ruta-muraria
Polypodiaceae Asplenium septentrionale
Polypodiaceae Asplenium trichomanes
Polypodiaceae Asplenium trichomanes trichomanes
Polypodiaceae Athyrium filix-femina
Polypodiaceae Cystopteris fragilis
Polypodiaceae Dryopteris dilatata
Polypodiaceae Dryopteris expansa
Polypodiaceae Dryopteris filix-mas
Polypodiaceae Gymnocarpium dryopteris
Polypodiaceae Notholaena marantae
Polypodiaceae Polypodium interjectum
Polypodiaceae Polypodium vulgare
Polypodiaceae Polystichum aculeatum
Polypodiaceae Pteridium aquilinum
Primulaceae Lysimachia nummularia
Primulaceae Lysimachia punctata
Primulaceae Primula elatior
Primulaceae Primula veris canescens
Primulaceae Soldanella rhodopaea
Pyrolaceae Moneses uniflora
Pyrolaceae Monotropa hypopitys
Pyrolaceae Orthilia secunda
Pyrolaceae Pyrola chlorantha
Pyrolaceae Pyrola minor
Pyrolaceae Pyrola rotundifolia
Ranunculaceae Aconitum lycoctonum neapolitanum
Ranunculaceae Actaea spicata
Ranunculaceae Anemone nemorosa
Ranunculaceae Anemone ranunculoides
Ranunculaceae Caltha palustris
Ranunculaceae Clematis vitalba
Ranunculaceae Clematis viticella
Ranunculaceae Helleborus odorus cyclophyllus
Ranunculaceae Ranunculus ficaria

Ranunculaceae *Ranunculus fontanus*
 Ranunculaceae *Ranunculus millefoliatus*
 Ranunculaceae *Ranunculus neapolitanus*
 Ranunculaceae *Ranunculus platanifolius*
 Ranunculaceae *Ranunculus polyanthemoides*
 Ranunculaceae *Ranunculus polyanthemus*
 Ranunculaceae *Ranunculus psilostachys*
 Ranunculaceae *Ranunculus repens*
 Ranunculaceae *Ranunculus sartorianus*
 Ranunculaceae *Ranunculus serbicus*
 Ranunculaceae *Thalictrum aquilegifolium*
 Rhamnaceae *Frangula rupestris*
 Rhamnaceae *Paliurus spina-christi*
 Rosaceae *Agrimonia eupatoria*
 Rosaceae *Agrimonia eupatoria eupatoria*
 Rosaceae *Agrimonia procera*
 Rosaceae *Alchemilla bulgarica*
 Rosaceae *Alchemilla gorcensis*
 Rosaceae *Alchemilla gracilis*
 Rosaceae *Alchemilla monticola*
 Rosaceae *Alchemilla straminea*
 Rosaceae *Alchemilla viridiflora*
 Rosaceae *Amygdalus webbii*
 Rosaceae *Aremonia agrimonoides*
 Rosaceae *Aremonia agrimonoides agrimonoides*
 Rosaceae *Cerasus avium*
 Rosaceae *Cotoneaster integerrimus*
 Rosaceae *Cotoneaster nebrodensis*
 Rosaceae *Crataegus monogyna*
 Rosaceae *Crataegus monogyna monogyna*
 Rosaceae *Crataegus orientalis*
 Rosaceae *Filipendula ulmaria*
 Rosaceae *Filipendula vulgaris*
 Rosaceae *Fragaria vesca*
 Rosaceae *Geum coccineum*
 Rosaceae *Geum molle*
 Rosaceae *Geum rhodopeum*
 Rosaceae *Geum rivale*
 Rosaceae *Geum rivale Xurbanum*
 Rosaceae *Geum urbanum*
 Rosaceae *Malus dasycphylla*
 Rosaceae *Malus sylvestris*
 Rosaceae *Potentilla argentea*
 Rosaceae *Potentilla erecta*
 Rosaceae *Potentilla haynaldiana*
 Rosaceae *Potentilla inclinata*
 Rosaceae *Potentilla micrantha*
 Rosaceae *Potentilla recta*
 Rosaceae *Potentilla regis-borisii*
 Rosaceae *Potentilla reptans*

Rosaceae Prunus divaricata
Rosaceae Prunus domestica domestica
Rosaceae Prunus spinosa
Rosaceae Pyrus pyraster
Rosaceae Rosa agrestis
Rosaceae Rosa arvensis
Rosaceae Rosa canina
Rosaceae Rosa horrida
Rosaceae Rosa pendulina
Rosaceae Rosa pimpinellifolia
Rosaceae Rosa pulverulenta
Rosaceae Rosa trachyphylla
Rosaceae Rubus canescens
Rosaceae Rubus discolor
Rosaceae Rubus hirtus
Rosaceae Rubus idaeus
Rosaceae Rubus sanctus
Rosaceae Rubus saxatilis
Rosaceae Sanguisorba minor balearica
Rosaceae Sorbus aria
Rosaceae Sorbus aria aria
Rosaceae Sorbus aria cretica
Rosaceae Sorbus ariaXaucuparia
Rosaceae Sorbus aucuparia
Rosaceae Sorbus aucuparia aucuparia
Rosaceae Sorbus austriaca
Rosaceae Sorbus domestica
Rosaceae Sorbus torminalis
Rosaceae Spiraea crenata
Rubiaceae Asperula aristata
Rubiaceae Asperula aristata condensata
Rubiaceae Asperula aristata nestia
Rubiaceae Asperula aristata scabra
Rubiaceae Asperula aristata thessala
Rubiaceae Asperula purpurea
Rubiaceae Asperula purpurea purpurea
Rubiaceae Cruciata glabra
Rubiaceae Cruciata laevipes
Rubiaceae Cruciata pedemontana
Rubiaceae Galium agrophilum
Rubiaceae Galium aparine
Rubiaceae Galium debile
Rubiaceae Galium exaltatum
Rubiaceae Galium hellenicum
Rubiaceae Galium odoratum
Rubiaceae Galium palustre
Rubiaceae Galium rigidifolium
Rubiaceae Galium rivale
Rubiaceae Galium rotundifolium
Rubiaceae Galium verum

Rubiaceae *Rubia tinctorum*
Salicaceae *Populus nigra*
Salicaceae *Populus tremula*
Salicaceae *Salix alba*
Salicaceae *Salix amplexicaulis*
Salicaceae *Salix caprea*
Salicaceae *Salix capreaXpedicellata*
Salicaceae *Salix capreaXpurpurea*
Salicaceae *Salix cinerea*
Salicaceae *Salix elaeagnos*
Salicaceae *Salix fragilis*
Salicaceae *Salix purpurea*
Salicaceae *Salix rubens*
Salicaceae *Salix triandra*
Santalaceae *Thesium alpinum*
Santalaceae *Thesium divaricatum*
Santalaceae *Thesium linophyllon*
Santalaceae *Thesium linophyllon montanum*
Saxifragaceae *Chrysosplenium alternifolium*
Saxifragaceae *Saxifraga bulbifera*
Saxifragaceae *Saxifraga paniculata*
Saxifragaceae *Saxifraga rotundifolia*
Saxifragaceae *Saxifraga rotundifolia rotundifolia*
Saxifragaceae *Saxifraga sempervivum*
Scrophulariaceae *Digitalis lanata*
Scrophulariaceae *Digitalis viridiflora*
Scrophulariaceae *Euphrasia hirtella*
Scrophulariaceae *Euphrasia liburnica*
Scrophulariaceae *Euphrasia pectinata*
Scrophulariaceae *Euphrasia stricta*
Scrophulariaceae *Gratiola officinalis*
Scrophulariaceae *Lathraea rhodopea*
Scrophulariaceae *Linaria genistifolia*
Scrophulariaceae *Linaria genistifolia euxina*
Scrophulariaceae *Linaria pelisseriana*
Scrophulariaceae *Melampyrum sylvaticum*
Scrophulariaceae *Odontites vernus vernus*
Scrophulariaceae *Rhinanthus rumelicus*
Scrophulariaceae *Rhinanthus wagneri*
Scrophulariaceae *Rhynchocorys elephas*
Scrophulariaceae *Scrophularia nodosa*
Scrophulariaceae *Scrophularia scopolii*
Scrophulariaceae *Verbascum densiflorum*
Scrophulariaceae *Verbascum glabratum*
Scrophulariaceae *Verbascum glabratum glabratum*
Scrophulariaceae *Verbascum humile*
Scrophulariaceae *Verbascum longifolium*
Scrophulariaceae *Verbascum phlomoides*
Scrophulariaceae *Verbascum speciosum*
Scrophulariaceae *Verbascum speciosum megaphlomos*

Scrophulariaceae *Verbascum speciosum speciosum*
Scrophulariaceae *Veronica anagallis-aquatica*
Scrophulariaceae *Veronica barrellieri*
Scrophulariaceae *Veronica beccabunga*
Scrophulariaceae *Veronica chamaedrys*
Scrophulariaceae *Veronica chamaedrys chamaedrys*
Scrophulariaceae *Veronica dillenii*
Scrophulariaceae *Veronica jacquinii*
Scrophulariaceae *Veronica officinalis*
Scrophulariaceae *Veronica scutellata*
Scrophulariaceae *Veronica serpyllifolia*
Scrophulariaceae *Veronica urticifolia*
Selaginellaceae *Selaginella helvetica*
Solanaceae *Atropa belladonna*
Solanaceae *Solanum dulcamara*
Thymelaeaceae *Daphne mezereum*
Tiliaceae *Tilia argentea*
Tiliaceae *Tilia cordata*
Typhaceae *Typha latifolia*
Ulmaceae *Celtis australis*
Ulmaceae *Ulmus minor canescens*
Urticaceae *Parietaria officinalis*
Urticaceae *Urtica dioica*
Valerianaceae *Valeriana montana*
Valerianaceae *Valeriana officinalis*
Valerianaceae *Valeriana officinalis collina*
Valerianaceae *Valeriana officinalis officinalis*
Valerianaceae *Valerianella carinata*
Valerianaceae *Valerianella dentata*
Valerianaceae *Valerianella locusta*
Valerianaceae *Valerianella muricata*
Verbenaceae *Verbena officinalis*
Violaceae *Viola aetolica*
Violaceae *Viola dacicaXmacedon*
Violaceae *Viola ganiatsasii*
Violaceae *Viola hymettia*
Violaceae *Viola macedonica*
Violaceae *Viola macedonicaXorbelic*
Violaceae *Viola parvula*
Violaceae *Viola reichenbachiana*
Violaceae *Viola riviniana*
Violaceae *Viola stojanowii*
Vitaceae *Vitis vinifera sylvestris*