

GALIČICA

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The mountain of Galičica is situated in the southern part of the Republic of Macedonia. It is situated between two lakes: lake of Ohrid and lake of Prespa. In the south it is limited with the state border with Albania and in the north by lower mountains.

Geomorphology of the mountain is divided into two parts. The southern part of the mountain to the south of the pass Polce is known as Stara Galičica (Old Galičica). All the peaks in the north-south direction make a continuous mountain range built of carbonate bedrock where appear various karstic features. Slopes to the Ohrid and Prespa lake are steep whereas the upper part built as a karstic plateau where we can find various karstic phenomena, such as dolinas, sink holes and peaks rise above this plateau. The area is poor in water. This karstic plateau at the altitude 1600/1700 was intensively grazed in the past and used to be covered by grasslands. After abandonment in a process of reforestation has begun that is rather slow because of severe site conditions. On Galičica forest are found up to 1900 m; forest used to grow even higher, but altitudinal limit was lowered by human impact.

During excursion we will deal with forest vegetation of the alliance Fagion moesicae, mesophilous beech forests of the central part of the Balkan Peninsula and with grassland belonging to Seslerion nitidae (Onobrychido-Festucion) that encompass subalpine calcareous tussock grasslands of south-central Balkan Peninsula.

Excursion

Stop 1 dry grassland Stipo-Festucetum (40.954250°, 20.812833° - 1580 m)

<i>Achillea holosericea</i>	<i>Centaurea deusta</i>
<i>Achillea ageratifolia</i> subsp. <i>aizoon</i>	<i>Cephalaria setulifera</i>
<i>Alyssum desertorum</i>	<i>Chondrylla juncea</i>
<i>Anthericum lilago</i>	<i>Cirsium aefrum</i>
<i>Artemisia alba</i>	<i>Colchicum autumnale</i>
<i>Asperula aristata</i>	<i>Cotoneaster mariana</i>
<i>Asphodeline taurica</i>	<i>Cynoglossum columnae</i>
<i>Astagalus baldaccii</i>	<i>Cytisus decumbens</i>
<i>Astragalus angustifolius</i>	<i>Daphne oleoides</i>
<i>Astragalus mayeri</i>	<i>Dianthus sylvestris</i> subsp. <i>bertisceus</i>
<i>Asyneuma limonifolium</i>	<i>Draba lasiocarpa</i>
<i>Athamantha haynaldii</i>	<i>Erysimum pectinatum</i>
<i>Athyllis vulneraria</i> subsp. <i>spruneriana</i>	<i>Eryngium palmatum</i>
<i>Carex caryophylla</i>	<i>Euphorbia myrsinites</i>
	<i>Festuca hirtovaginata</i>

Galium oreophilum
Helianthemum canum
Hieracium pannosum
Inula oculus-christi
Juniperus foetidissima
Jurinea consanguinea
Koeleria splendens
Leontodon crispus
Linum hirsutum
Micromeria kosaninii
Minuartia verna
Muscari racemosum
Onobrychis montana subsp.
scardica
Onosma heterophylla
Orobanche sp.
Paronychia macedonica
Pedicularis sp.
Pimpinella tragium subsp. *litophylla*

Potentilla pedata
Prunus prostrata
Rhamnus saxatilis
Saponaria bellidifolia
Satureja montana subsp. *pisidica*
Sedum acre
Sedum ochroleucon
Sempervivum galicum
Sesleria wettsteinii
Sideritis montana var. *remota*
Silene radicata
Stipa epilosa
Teucrium montanum
Thalictrum minus
Thymus ciliatopubescens
Thymus moesiacus
Tragopogon pratensis
Trinia glauca
Vincetoxicum hirundinaria

Stop 2 Polce, pasture on deeper soil (Poion violaceae) (40.953000°, 20.828389°, - 1577 m)

Achillea pannonica
Acinos aplanus ssp. *meridionalis*
Achillea chrysocoma
Alyssum desertorum
Anthemis carpatica subsp. *orientalis*
Anthoxanthum odoratum
Arenaria leptoclados
Asphodelus albus
Asyneuma limonifolium
Bombicilena erecta
Bromus erectus
Campanula spruneriana
Capsella bursa-pastoris
Cerastium brachypetalum
Cenaturea deusta
Cruciata pedemontana
Crupina vulgaris
Chenopodium bonus-henricus
Convolvulus arvensis
Cruciata laevipes
Dactylorhiza sambucina
Dactylis glomerata
Danaa cornubiensis
Daphne mezereum
Daphne oleoides
Diathnus cruentus
Dianthus degenii

Hieracium pillosella
Inula oculus-christi
Koeleria splendens
Lolium perenne
Lotus corniculatus
Leontodon crispus
Linaria peloponesiaca
Luzula campestris
Lychnis viscaria
Minuartia verna
Myosotis arvensis
Muscari racemosum
Medicago falcata
Orlaya daucoides
Petrorrhagia saxifraga
Pimpinella tragium subsp. *litophylla*
Plantago lanceolata
Poa pratensis
Potentilla detomasi
Poa bulbosa
Primula columnae
Ranunculus psilostachys
Rhinanthus minor
Salvia argentea
Sanguisorba minor
Sedum acre
Scandix australis

Doronicum columne
Dorycnium pentaphyllum
Epilobium angustifolium
Eryngium palmatum
Erysimum pectinatum
Euphorbia myrsinites
Fagus sylvatica
Festuca hirtovaginata
Festuca pratensis
Festuca vallesiaca
Fragaria viridis
Galium mollugo agg
Galium odoratum
Galium oreophilum
Galium verum
Geranium aristatum
Geranium brutium
Geranium reflexum
Geranium robertianum
Geum urbanum
Helleborus odorus
Hieracium bauchinii

Sideritis montana ssp. remota
Stipa epilosa
Secale montanum
Senecio papposus
Sideritis raeseri
Silene bupleuroides
Silene otites
Stachys tymphaea
Stellaria holostea
Torilis arvensis
Trifolium arvense
Trifolium camperstre
Trifolium alpestre
Thlaspi perfoliatum
Thymus moesiacus
Teucrium chamaedrys
Trisetum flavescens
Veronica jacquinii
Verbascum longifolium
Veronica arvensis
Xeranthemum annuum
Valeriana dioscoridis

Stop 3 beech forest zone of Calaminthno-Fagetum with open habitat (40.949972°, 20.826694°, 1650 m)

Achillea setacea
Acinos alpinus ssp. meridionalis
Aethonema saxatile
Anthemis carpatica ssp. orientalis
Aremonia agrimonoides
Asperula aristata
Asphodeline taurica
Astragalus angustifolius
Campanula glomerata
Calamintha grandiflora
Campanula spatulata
Cardamine bulbifera
Cenaturea deusta
Cephalanthera alba
Cerastium brachypetalum
Chaerophyllum aureum
Cruciata laevipes
Dactylis glomerata
Diathnus cruentus
Doronicum columne
Epilobium angustifolium
Erysimum pectinatum

Euphorbia myrsinites
Fagus sylvatica
Fragaria viridis
Galium mollugo agg.
Galium odoratum
Geranium aristatum
Geranium reflexum
Geranium robertianum
Geum urbanum
Helleborus odorus
Hieracium bauchinii
Juniperus communis ssp. nana
Lapsana communis
Leontodon crispus
Linaria peloponesiaca
Lonicera alpigena
Minuartia verna ssp. collina
Moehringia trinervia
Myosostis sylvatica agg.
Orthilia secunda
Phleum alpinum
Poa bulbosa

Poa nemoralis	
Potentilla detomasi	
Primula columnae	
Prunus spinosa	Sorbus aucuparia
Ranunculus psilostachys	Stachys thymphea
Ranunculus sartorianus	Thymus moesiacus
Rubus idaeus	Tragopogon balcanicum
Rumex acetosa	Valeriana dioscoridis
Sanguisorba minor	Verbascum longifolium agg.
Scandix australis	Veronica vindobonensis/chamaedrys
Secale montanum	Vicia inacana
Senecio jankae	
Silene bupleuroides	
Solenanthus scardicus	
Sorbus aria	

Stop 4 fir-beech forest Abieti-Fagetum 40.947430° 20.826510°, 1736 m

Abies borisii-regis	Geranium reflexum
Arabis alpina	Millium effusum
Aremonia agrimonioides	Mycelis muralis
Asyneuma pichleri	Orthilia secunda
Brachypodium sylvaticum	Poa nemoralis
Calamintha grandiflora	Polystichum aculeatum
Campanula glomerata	Polystichum lonchitis
Cardamine bulbifera	Rubus idaeus
Chamerion angustifolium	Sanicula europaea
Clinopodium vulgare	Saxifraga rotundifolia
Cystopteris fragilis	Sorbus aucuparia
Euphorbia amygdaloides	Trifolium pignatii
Festuca heterophylla	Veronica chamaedys
Galium odoratum	Viola hirta
Geranium aristatum	

STOP 5 beech forest Asyneumo-Fagetum (40, 94622°, 20, 82622°, 1755 m)

Achillea abrotanoides	Daphne oleoides
Achillea chrysocoma	Doronicum austriacum
Achillea grandiflora	Epilobium angustifolium
Arabis alpina	Epilobium montanum
Aremonia agrimonioides	
Asplenium trichomanes	Erysimum pectinatum
Asyneuma pichleri	Euphorbia amygdaloides
Brachypodium sylvaticum	Fagus sylvatica
Campanula glomerata	Festuca heterophylla
Carduus tmoleus	Fragaria viridis
Chenopodium bonus-	Galium odoratum
henricus	Geranium aristatum
Cystopteris fragilis	Geranium reflexum

Geum urbanum
Herculeum sphondylium
Hieracium murorum
Juniperus communis
Lamium garganicum
Laserpitium ohridanum
Lonicera alpigena
Lonicera xylosteum
Myosotis suaveolens
Orthilia secunda
Poa nemoralis
Poa trivialis
Polystichum lonchitis
Primula columnae
Ranunculus sartorianus

Rubus idaeus
Rumex arifolius
Saxifraga rotundifolia
Senecio jacobea
Silene vulgaris
Sorbus aucuparia
Stahys jacquini
Trifolium pignatii
Urtica dioica
Veronica chamaedrys
Vicia incana
Vicia tenuifolia

STOP 6 alpine pastures Onobrychido-Festucetum 40.94427°, 20.82617°, 1840 m)

Senecio paposus
Achillea holosericea
Acinos alpinus ssp. meridionalis
Aethionema saxatile
Anthericum liliago
Anthyllis aurea var. multifoliata
Anthyllis vulneraria
Armeria rumelica
Asperula aristata
Asplenium fissum
Astragalus mayeri
Asyneuma limonifolia
Campanula spatulata
Carex laevis
Centaurea triumfettii
Cerastium decalvans
Dactylorhiza sambucina
Dianthus integer
Daphne oleoides
Draba lasiocarpa
Edraianthus horvatii
Festuca galicicae
Fritillaria tenella
Galium oreophilum
Geranium subcaulescens var.
rupestris
Helianthemum canum
Helianthemum nummularium
Hieracium pannosum

Iberis sempervirens
Juniperus nana
Koeleria splendens
Laserpitium ohridanum
Leotodon crispus
Linum flavum
Lonicera alpigena
Minuartia collina ssp. verna
Myosotis suaveolens
Onobrychis montana ssp. scardica
Oxytropis dinarica
Oxytropis purpurea
Peucedanum schottii
Plantago argentea
Poa badensis
Polygala comosa
Paronichia macedonica
Potentilla pedata
Potentilla speciosa
Primula columnae
Saxifraga paniculata
Saxifraga scardica
Sedum ochroleucon
Semervivum galicicae
Sesleria nitida (S. robusta)
Sideritis raeseri
Sorbus aria
Thesium lynophyllum

Thymus ciliatopubescens

Trifolium alpestre

STOP 7 oromediterranean species (*Daphno-Festucetea* s. lat) and elements of rocky habitats (*Potentilletalia specosae*) (40.943361°, 20.826972°, 1868 m)

Achillea ageratifolia ssp. *aizoon*
Armeria rumeliaca
Antyllis aurea ssp. *multifoliata*
Potentilla detomasii
Astragalus angustifolius
Cerastium decalvans
Dactylorhiza sambucina
Daphne oleoides
Drypis jacquiniana (on scree)
Genista radiata
Gentiana verna
Gymnadenia friwaldii
Iberis sempervirens

Linum hirsutum
Luzula sylvatica
Onobrychis montana ssp. *scardica*
Peucedanum schottii
Potentilla speciosa
Saxifraga paniculata
Saxifraga scardica
Sempervivum galicum
Sideritis raeseri
Teucrium montanum
Thalictrum minus
Trinia glauca
Viola eximia

STOP 10 Kazan, ruderal vegetation 40.940500°, 20.828250°, 1927m)

Achillea chrysocoma
Achillea setosa
Agrostis canina
Arabis glabra
Arabis sagittata
Campanula patula
Campanula spathulata
Cruciata laevipes
Dianthus cruentus
Dianthus myrtinervius subsp. *zupancici*
Erysimum pectinatum
Geranium aristatum
Hypericum barbatum

Linaria peloponesiaca
Luzula campestris
Lychnis viscaria
Myosotis suaveolens
Phleum alpinum
Potentilla detomasini
Ranunculus psilostachys
Rumex alpinus
Rumex arifolius
Stachys tymphaea
Trifolium hybridum
Verbascum longifolium
Veronica vindobonensis

STOP 11. on slope and on the top-optional climb to the top (40.942861° 20.829556°, 2003 m)

Achillea holosericea
Alyssum galicicae
Astragalus angustifolius
Astragalus mayeri
Berberis croatica
Dianthus integer
Edrianthus horvatii
Galium mollugo agg.

Oxytropis dinarica
Paronychia macedonica

Pinus heldreichii
Poa bulbosa
Scorzonera strictiformis
Semervivum galicum
Sideritis raeseri

Stipa epilosa
Teucrium montanum
Thesium lynophyllum

Thymus ciliatopubescens
Trinia grauca

STOP 12 Quercus trojana- forest (40.945361°, 20.789583°, 901 m)

Acanthus balcanicus
Acer monspessulanum
Aegilops triaristata
Agropyron repens
Ajuga genevensis
Alyssoides utriculata
Anthemis arvensis
Anthericum liliago
Arabis hirsuta
Bromus squarrosus
Carex montana
Carpinus orientalis
Carthamus lanatus
Convolvulus cantabrica
Cornus mas
Coronilla varia
Crucianella angustifolia
Crupina vulgaris
Cynoglossum columnae
Cynosurus echinatus
Dactylis glomerata
Eryngium campestre
Erysimum diffusum
Fraxinus ornus
Galium macedonicum
Heliathemum salicifolium
Helleborus odoratus
Herniaria incana

Hieracium bauchinii
Hypericum perforatum
Hypericum rumeliacum
Juniperus oxycedrus
Lathyrus aphaca
Lolium perenne
Medicago falcata
Minuartia setosa
Orlaya daucoides
Petrorhagia saxifraga
Phleum phleoides
Poa bulbosa
Potentilla laciniata
Prunella laciniata
Quercus trojana
Ranunculus neapolitanus
Rosa arvensis
Sideritis montana
Silene italica
Silene vulgaris
Teucrium capitatum
Teucrium chamaedrys
Thymus rochlenae
Torilis arvensis
Trifolium alpestre
Trifolium campestre
Trifolium scabrum
Xeranthemum foetidum