

Bulgaria - Flowers of the Balkans

Naturetrek Tour Report

18 - 25 June 2016



Thyme Broomrape



Vetch-Anthyllis aurea



Mullein, *Verbascum speciosum* at Bansko



Scarce Swallowtail on Viper's Bugloss

Report and images by Neil Anderson



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Day 1

Saturday 18th June

Vitosha National Park

After a three hour flight from Heathrow, we arrived in a very warm Sofia- such a contrast to the autumnal weather we'd left behind in the UK. We soon encountered our genial guide Vladimir and set off to Vitosha. After an hour's drive, we started our first botanical foray and were able to stretch our legs. This spot was very popular with local families.

Immediately, we were spoilt with a wealth of flowers with the showy purple marsh orchid, *Dactylorhiza cordigera*, as well as Globe Flower (*Trollius europaeus*), *Pulmonaria rubra* and *Astrantia major*. Gill has a passion for *Orobancha* so was excited to look at a few, though all were *O. alba*, parasitic on thyme. In fact, we encountered this species on most subsequent days.

As we walked further up, we could see the ski lifts at this important winter sports location. An Alpine Swift was seen amongst the large number of Common Swifts and a Balkan Stream Frog was encountered in the small stream.

Two lilies, *Lilium jankae* and *L. martagon* were seen close together in bud at the end of our walk, as well as the glamorous *Aquilegia aurea*.

We then drove to our lodge for the next two evenings. As we approached, we saw the spectacle of large numbers of Black-veined Whites gliding across the meadows.

Day 2

Sunday 19th June

Vitosha N.P

From our comfortable lodge we set off to the southern foothills of Vitosha. Many flowers were spotted as soon as we disembarked from our bus- the attractive foxglove, *Digitalis lanata*, the bugle, *Ajuga laxmannii* and a small white umbellifer, *Orlaya grandiflora*, which is now popular in cultivation. One of the highlights here was the yellow knapweed, *Centaurea orientalis*. Wherever we looked there were new flowers to be enjoyed, together with a Red-backed Shrike sitting on a bush and plenty of butterflies and other insects.

After a couple of satisfying hours, we moved on to our scenic lunch spot, a stream setting above the village of Bosnek. One of the most attractive flowers here was the pink, *Dianthus cruentus*, with its deep red calyx and flower. This spot was also productive for reptiles with the colourful Eastern Green Lizard, Wall Lizard and Snake-eyed Skink.

We then had a brief road stop to admire some Red Helleborines (*Cephalanthera rubra*) before our final stop at the Golo Bardo Mountain where we saw an important population of the endangered endemic *Centaurea immanuelis-loewii*, with unusually dark blooms. The lizard orchid, *Himantoglossum jankae* (recently split from *H. caprinum*) was a rewarding sight as was the spectacle of a mass of bright yellow *Anthyllis aurea*, also enjoyed by some butterflies including migrant Painted Ladies as well as Humming-bird Hawk-moth.

We then returned for our final evening at the old hunting lodge.

Day 3

Monday 20th June

Bankso

Leaving Vitosha, we set off for our next base for the following three nights at Bansko: another popular winter ski resort with lots of new accommodation blocks for sports tourists. It was another hot, sunny day. We initially had a stop near the village of Lyalintoi village to see one of Bulgaria's most endangered plants- an upright, rhizomatous legume called *Lathyrus pancicii*. This is the only global population and consists of about 500 plants. This was a delightful spot with singing Nightingale, Skylark and Yellowhammer as well as the sound of Field Crickets. Other special plants here included the colourful Field Cow-wheat (*Melampyrum arvense*), large flower heads of Hungarian Clover (*Trifolium pannonicum*) and the yellow rattle, *Rhinanthus rumelica*.

Tearing ourselves away, we headed for the Rila Mountains to visit the Rila Monastery, one of the most important buildings in Bulgaria. Initially founded in the 10th century it is still home to 60 monks. After our lunch in a restaurant opposite the monastery, we entered the sacred grounds and admired the impressive architecture. Even here there was natural history interest with breeding Pallid Swifts and Crag Martins, Wall Lizards and various *Sedums* on the walls.

Before arriving at Bansko we had two brief stops. The first was to look at some Marsh Helleborines (*Epipactis palustris*) and, sadly past its best, *Orchis elegans*. We then stopped in the town of Kocherinova to look at the active nest of some White Storks. When we watched one bird in flight we also saw a Peregrine above it.

On the approach to Bansko, Vladimir pointed out that we could see three mountain chains: Pirin, Rila and Rhodope Mountains.

Day 4

Tuesday 21st June

Bansko

After our breakfast, we drove up into the Pirin Mountains above our hotel to start our voyage in the meadows and subalpine communities. Today we concentrated on the limestone area. Vladimir showed us a couple of endemics lower down- *Pinus heldreichii* and *Verbascum davidovii*. Other botanical goodies here were the showy *Geum coccineum*, *Genista absinthoides*, the aromatic *Daphne oleiodes* and *Acinos alpinus*. On our ascent, we visited "Baikusheva Mura", a Macedonian Pine which is believed to be the country's oldest tree at 1,350 years old.

A picnic lunch was enjoyed by a small stream where we found *Aubretia gracilis*. Despite the height, it was unusually warm and we were relieved not to be sweltering back in Bansko. We continued up the road to the mountain chalet at 1972 metres where we had some well-deserved refreshments.

Returning via a grassy and sometimes boggy track we saw some more orchids- *Dactylorhiza cordigera* again and, new to us, *Gymnadenia frivaldii* with its pale, compact heads. David found some exquisite Spring Gentians.

Day 5

Wednesday 22nd June

Bansko

Today we returned to where we finished yesterday, at the Banderitsa Mountain Chalet, to explore slightly higher and look at the flora of a siliceous part of the mountain. After clambering over some rocks, we found some gems in the alpine pasture, with bright blue *Gentiana pyrenaica*, the semi-parasitic lousewort, *Pedicularis orthantha*, *Dianthus microlepis* and the showy *Geum montanum*. Birds seen included a close male Ring Ouzel, Black Redstarts and a family of Bullfinches.

We stopped by a glacial lake where we saw *Bartsia alpina*. An idyllic spot in the warmth- 31°C! We then retraced our steps for lunch in the chalet where we watched Red-rumped Swallows and Crag Martins.

After our fine picnic, we drove down to some woodland where we found a variety of orchids: Bird's-nest (*Neottia nidus-avis*), Common Twayblade (*Neottia ovata*), Red Helleborine and Wedge-lipped Orchid (*Dactylorhiza saccifera*) as well as Herb Paris (*Paris quadrifolia*) and another fine yellow knapweed, *Centaurea mannagettae*. An obliging Scarce Swallowtail sipped nectar from Viper's Bugloss (*Echium vulgare*) and then took salts from some wet mud with numerous blues.

Day 6

Thursday 23rd June

Pamporova

After our final breakfast at Bansko, we had a quick walk around some nearby waste land where we saw the only *Clematis recta* of the trip in full flower. At the request of Simon, we then paid a visit to the "old town" after Wendy had visited earlier and extolled its virtues. The church tower had breeding White Storks on the top, while dozens of Swifts flew round it. We visited the square and looked at the statues.

Our first proper botanical stop was at a cliff yielding a couple of *Sempervivum* species, Birthwort (*Aristolochia clematidis*) and *Dianthus pinifolius*. The area abounded with butterflies including the stunning Great Banded Grayling and Balkan Marbled White.

Lunch was taken at a comfortable picnic facility built by locals by some attractive meadows. A Corn Bunting was singing from the top of a pine here. Flowers found in the meadows included Burnt and Bug Orchids (*Neotinea ustulata* and *Anacamptis coriophora*), Maiden Pink (*Dianthus deltoides*) and a Wild Gladiolus (*Gladiolus imbricatus*). As we walked up the hill, we came to a pond which had many Marsh Frogs calling and Gill spotted a small snake disappear under the water which I suspect was a Dice Snake but sadly it didn't reappear. We did see large numbers of Honey Bees drinking and the largest number of *Odonata* of the trip, including a cruising male Emperor Dragonfly.

We then crossed the road, where we heard a Quail calling from the meadow and enjoyed a variety of plants such as Fragrant Orchid (*Gymnadenia conopsea* agg.), Corncockle (*Agrostemma githago*) and some white flowered Betony (*Stachys officinalis*).

Before arriving at our hotel at Pamparovo, we had one final stop where we found a variety of orchids including some *Dactylorhiza*; these can often be problematic due to their promiscuity, but Vladimir proclaimed some Early

Marsh (*Dactylorhiza incarnata*) and *D. baumanniana*. A very colourful Large Banded Grasshopper stood out amongst the numerous *Orthoptera*. As we returned to the bus, Simon said he'd seen some attractive insects on the stream which turned out to be the aptly named Beautiful Demoiselles.

The views of the Rhodope Mountains from our hotel were spectacular, and both Simon and Wendy made the most of the pool in the warm evening sunshine. After dark, Wendy discovered some Fireflies flitting around the hotel.

Day 7

Friday 24th June

Pamporovo

Immediately after breakfast, we did some botanising near the hotel and found Greater Butterfly Orchid (*Platanthera chlorantha*) and Violet Limodore (*Limodorum abortivum*), while Crossbills were in the pines.

We then drove to the truly impressive Trigrad Gorge where the tall marble cliffs enclose the Trigrad River, the latter inhabited by many Grey Wagtails and we also saw Dipper. Hop Hornbeam (*Ostrya carpinifolia*) was a new tree for the trip and we saw leaves of *Hepatica nobilis* and *Asarum europaeum*, fruiting Coralroot Orchid (*Corallorhiza trifida*) and, amongst the more showy plants, the prickly *Morina persica* and the attractive willowherb, *Epilobium dodonaei*.

Lunch was taken at a restaurant at the gorge, and we watched Brown Trout in the river outside. We then visited the Devil's- throat Cave where, in the humid atmosphere, we saw various ferns and a special endemic *Haberlea rhodopensis* on the walls, a member of a largely tropical family, the *Gesneriaceae*.

On our return to base, we stopped for half an hour for a photo stop for a small attractive bridge over a stream and looked at the flora here too.

Day 8

Saturday 25th June

Sadly, it was time to leave our final hotel to head back for the long drive back to Sofia. We did have one final botanical stop to look at some plants on rocks by a small railway. Here we added some new plants including non-flowering *Campanula lanata*, *Inula aschersoniana* and the pretty *Dianthus giganteus*.

Reaching the airport we said our goodbyes to Vladimir and our driver and also to Wendy who was staying for a couple of extra days in Sofia.

Naturetrek Facebook

We are delighted to launch the Naturetrek Facebook page so that participants of Naturetrek tours can remain in touch after the holiday and share photos, comments and future travel plans.

Setting up a personal profile at www.facebook.com is quick, free and easy. The [Naturetrek Facebook page](#) is now live; do please pay us a visit!

Species Lists

Plants

PTERIDOPHYTES

<i>Selaginella helvetica</i>	<i>Isoetes lacustris</i>	<i>Equisetum hyemale</i>
<i>Asplenium ceterach</i>	<i>A. ruta-muraria</i>	<i>A. septentrionale</i>
<i>A. viride</i>	<i>A. trichomanes</i>	<i>Athyrium filix-femina</i>
<i>Cystopteris fragilis</i>	<i>Gymnocarpium dryopteris</i>	<i>G. robertianum</i>
<i>Pteridium aquilinum</i>	<i>Dryopteris filix-mas</i>	<i>Polystichum lonchitis</i>
<i>P. setiferum</i>	<i>Polypodium vulgare</i>	

GYMNOSPERMS

<i>Juniperus communis</i>	<i>J. sibirica</i>	<i>Abies alba</i>
<i>Picea abies</i>	<i>Pinus heldreichii</i>	<i>P. mugo</i>
<i>P. nigra</i>	<i>P. peuce</i>	<i>P. sylvestris</i>

ANGIOSPERMS : Dicots

Aristolochiaceae

Aristolochia clematitis

Adoxaceae

<i>Sambucus ebulus</i>	<i>S. nigra</i>	<i>S. racemosa</i>
<i>Viburnum lantana</i>	<i>V. opulus</i>	

Amaranthaceae

<i>Chenopodium album</i>	<i>C. bonus-henricus</i>	<i>C. foliosum</i>
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Anacardiaceae

Cotinus coggyria

Apiaceae

<i>Aegopodium podagraria</i>	<i>Angelica sylvestris</i>	<i>Anthriscus sylvestris</i>
<i>Astrantia major</i>	<i>Bupleurum falcatum</i>	<i>Carum carvi</i>
<i>Chaerophyllum bulbosum</i>	<i>C. temulum</i>	<i>Conium maculatum</i>
<i>Daucus carota</i>	<i>Eryngium campestre</i>	<i>Heracleum sibiricum</i>
<i>H. ternata</i>	<i>H. verticillata</i>	<i>Laserpitium siler</i>
<i>Ligusticum mutellina</i>	<i>Orlaya grandiflora</i>	<i>Pastinaca sativa</i>
<i>Physospermum cornubiense</i>	<i>Sanicula europaea</i>	<i>Seseli libanotis</i>
<i>S. rhodopaeum</i>	<i>S. rigidum</i>	<i>Trinia glauca</i>

Apocynaceae

Vincetoxicum hirundinaria

Asteraceae

<i>Achillea ageratifolia</i>	<i>A. clusiana</i>	<i>A. chyeolata</i>
<i>A. crithmifolia</i>	<i>A. grandifolia</i>	<i>A. millefolium</i>

<i>Anthemis tinctoria</i>	<i>Artemisia alba</i>	<i>A. vulgaris</i>
<i>Aster alpinus</i>	<i>Bellis perennis</i>	<i>Carduus personata</i>
<i>C. thomeri</i>	<i>Carlina acanthifolia</i>	<i>C. vulgaris</i>
<i>Centaurea immanuelis-loewii</i>	<i>C. jacea</i>	<i>C. mannagettae</i>
<i>C. nervosa</i>	<i>C. orbelica</i>	<i>C. orientalis</i>
<i>C. salonitana</i>	<i>C. stenolepis</i>	<i>C. triumfetti</i>
<i>C. uniflora</i>	<i>Chondrilla juncea</i>	<i>C. urumoffii</i>
<i>Cichorium intybus</i>	<i>Cirsium appendiculatum</i>	<i>C. canum</i>
<i>C. heterotrichum</i>	<i>C. lingulare</i>	<i>Crepis biennis</i>
<i>C. foetida</i>	<i>Crupina vulgaris</i>	<i>Doronicum austriacum</i>
<i>D. columnae</i>	<i>Erigeron acer</i>	<i>E. annuus</i>
<i>Eupatorium cannabinum</i>	<i>Hieracium alpicola</i>	<i>H. hoppeanum</i>
<i>H. neodivergens</i>	<i>H. pannosum</i>	<i>H. serriciphyllum</i>
<i>H. velenoskyii</i>	<i>Homogyne alpina</i>	<i>Hypochaeris maculate</i>
<i>H. radicata</i>	<i>Inula aschersoniana</i>	<i>I. ensifolia</i>
<i>I. oculus-christi</i>	<i>Jurinea consanguinea</i>	<i>Lactuca perennis</i>
<i>L. serriola</i>	<i>Lapsanna communis</i>	<i>Leontodon crispus</i>
<i>L. hispidus</i>	<i>Leucanthemum vulgare</i>	<i>Mycelis muralis</i>
<i>Onoprdum acanthium</i>	<i>O. tauricum</i>	<i>Petasites hybridus</i>
<i>P. kablikianus</i>	<i>Pilosella piloselloides</i>	<i>Prenanthes purpurea</i>
<i>Ptilostemon afer</i>	<i>Senecio nemorensis</i>	<i>S. rupestris</i>
<i>Solidago vigaurea</i>	<i>Sonchus asper</i>	<i>Tanacetum corymbosum</i>
<i>T. vulgare</i>	<i>Taraxacum sp</i>	<i>Telekia speciosa</i>
<i>Tragopogon balcanicus</i>	<i>T. dubius</i>	<i>T. orientalis</i>
<i>T. pterodes</i>	<i>Tussilago farfara</i>	<i>Xeranthemum annuum</i>
<i>X. cylindraceum</i>		

Betulaceae

<i>Alnus incana</i>	<i>Betula pendula</i>	<i>Carpinus orientalis</i>
<i>Corylus avellana</i>	<i>Ostrya carpinifolia</i>	

Boraginaceae

<i>Anchusa barrelieri</i>	<i>A. officinalis</i>	<i>Cerinthe glabra</i>
<i>C. minor</i>	<i>Cynoglossum officinale</i>	<i>Echium vulgare</i>
<i>Lithospermum officinale</i>	<i>Myosotis sp.</i>	<i>Onosma heterophylla</i>
<i>O. visiani</i>	<i>Pulmonaria rubra</i>	<i>Symphytum ottomanum</i>

Brassicaceae

<i>Aethionema saxatile</i>	<i>Alyssum alyssoides</i>	<i>A. murale</i>
<i>A. repens</i>	<i>Arabis alpina</i>	<i>A. procurrens</i>
<i>A. turrata</i>	<i>Aubretia gracilis</i>	<i>Barbarea balcana</i>
<i>Berteroa incana</i>	<i>Cardamine amara</i>	<i>C. impatiens</i>
<i>Erysimum cuspidatum</i>	<i>Malcolmia orsiniana</i>	<i>Rorippa pyrenaica</i>
<i>Thlaspi perfoliatum</i>	<i>T. praecox</i>	

Campanulaceae

<i>Asyneuma limonifolium</i>	<i>Campanula alpina</i>	<i>C. jordanovii</i>
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<i>C. lanata</i>	<i>C. lingulata</i>	<i>C. orbelica</i>
<i>C. orphanidea</i>	<i>C. patula</i>	<i>C. rapunculoides</i>
<i>C. scutellata</i>	<i>C. trachelium</i>	<i>Jasione bulgarica</i>
<i>Trachelium rumelianum</i>		

Cannabaceae*Humulus lupulus***Caprifoliaceae**

<i>Dipsacus laciniatus</i>	<i>Knautia arvensis</i>	<i>K. drymeia</i>
<i>K. integrifolia</i>	<i>K. midzorensis</i>	<i>Lonicera xylosteum</i>
<i>Morina persica</i>	<i>Scabiosa trinifolia</i>	<i>Valeriana montana</i>
<i>V. officinalis</i>	<i>V. tripteris</i>	

Caryophyllaceae

<i>Agrostemma githago</i>	<i>Arenaria biflora</i>	<i>A. rhodopaea</i>
<i>A. serpyllifolia</i>	<i>Cerastium alpinum</i>	<i>C. ceratioides</i>
<i>Dianthus armeria</i>	<i>D. cruentus</i>	<i>D. deltoides</i>
<i>D. giganteus</i>	<i>D. microlepis</i>	<i>D. noeanus</i>
<i>D. petraeus</i>	<i>D. pinifolius</i>	<i>D. tristis</i>
<i>Gypsophila glomerata</i>	<i>Herniaria glabra</i>	<i>H. hirsuta</i>
<i>Minuartia verna</i>	<i>Paronychia kapella</i>	<i>Petrorhagia prolifera</i>
<i>P. saxifraga</i>	<i>Saponaria bellidifolia</i>	<i>S. officinalis</i>
<i>Silene conica</i>	<i>S. coronaria</i>	<i>S. fabarioides</i>
<i>S. flavescens</i>	<i>S. flos-cuculi</i>	<i>S. italica</i>
<i>S. lerbchenfeldiana</i>	<i>S. noctiflora</i>	<i>S. pusilla</i>
<i>S. roemerii</i>	<i>S. saxifraga</i>	<i>S. viscaria</i>
<i>S. vulgaris</i>	<i>Stellaria graminea</i>	<i>S. nemorum</i>

Celastraceae

<i>Euonymus europaeus</i>	<i>E. latifolius</i>	<i>E. verrucosus</i>
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Cistaceae

<i>Fumana procumbens</i>	<i>Helianthemum oelandicum</i> subsp. <i>incanum</i>	<i>H. nummularium</i>
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Convolvulaceae

<i>Cuscuta</i> sp	<i>Convolvus arvensis</i>	<i>C. cantabrica</i>
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Cornaceae

<i>Cornus mas</i>	<i>C. sanguinea</i>	
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Crassulaceae

<i>Jovibarba bueffeli</i>	<i>Sedum acre</i>	<i>S. album</i>
<i>S. alpestre</i>	<i>S. annuum</i>	<i>S. atratum</i>
<i>S. cepaea</i>	<i>S. dasyphyllum</i>	<i>S. hispanicum</i>
<i>S. kostovii</i>	<i>S. ochroleucoum</i>	<i>S. telephium</i>
<i>Sempervivum ciliosum</i>	<i>S. marmorium</i>	

Lamiaceae

<i>Acinos alpinus</i>	<i>Ajuga chamaepitys</i>	<i>A. genevensis</i>
<i>A. laxmannii</i>	<i>A. pyramidalis</i>	<i>A. reptans</i>
<i>Ballota nigra</i>	<i>Calamintha sylvatica</i>	<i>Clinopodium acinos</i>
<i>C. vulgare</i>	<i>Lamium garganicum</i>	<i>L. maculatum</i>
<i>Marrubium frivaldskyanum</i>	<i>Mentha longifolia</i>	<i>Micromeria cristata</i>
<i>M. dalmatica</i>	<i>Nepeta nuda</i>	<i>Prunella vulgaris</i>
<i>Salvia amplexicaulis</i>	<i>S. pratensis</i>	<i>S. verticillata</i>
<i>Satureja montana</i>	<i>Scutellaria alpina</i>	<i>S. altissima</i>
<i>Sideritis montana</i>	<i>S. scardica</i>	<i>Stachys germanica</i>
<i>S. officinalis</i>	<i>S. recta</i>	<i>S. sylvatica</i>
<i>Teucrium chamaedrys</i>	<i>T. montanum</i>	<i>T. polium</i>
<i>Thymus</i> sp.		

Lentibulariaceae*Pinguicula balcanica***Linaceae**

<i>Linum austriacum</i>	<i>L. capitatum</i>	<i>L. catharticum</i>
<i>L. tenuifolium</i>		

Malvaceae

<i>Althaea pallida</i>	<i>Malva neglecta</i>	<i>M. hirsuta</i>
<i>M. sylvestris</i>		

Oleaceae

<i>Fraxinus excelsior</i>	<i>F. ornus</i>	<i>Ligustrum vulgare</i>
<i>Syringa vulgaris</i>		

Onagraceae

<i>Epilobium angustifolium</i>	<i>E. dodonaei</i>	<i>E. hirsutum</i>
<i>E. montanum</i>		

Orobanchaceae

<i>Bartsia alpina</i>	<i>Euphrasia</i> sp.	<i>Melampyrum arvense</i>
<i>M. sylvaticum</i>	<i>Orobanche alba</i>	<i>Pedicularis orthantha</i>
<i>Rhinanthus angustifolius</i>	<i>R. javorkae</i>	<i>R. minor</i> agg.
<i>R. rumelicus</i>		

Oxalidaceae*Oxalis acetosella***Papaveraceae**

<i>Chelidonium majus</i>	<i>Papaver dubium</i>	<i>P. rhoeas</i>
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Plantaginaceae

<i>Digitalis grandiflora</i>	<i>D. lanata</i>	<i>D. viridiflora</i>
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Globularia aphyllanthes
L. grandiflora
P. lanceolata
P. subulata
V. beccabunga
V. kelleri
V. urticifolia

G. cordifolia
L. vulgaris
P. major
Veronica anagallis-aquatica
V. bellidoides
V. officinalis

Linaria genistifolia
Plantago gentianoides
P. media
V. austriaca
V. chamaedrys
V. serpyllifolia

Plumbaginaceae

Armeria rumelica

Polygalaceae

Polygala major *P. vulgaris*

Polygonaceae

Persicaria alpina *P. bistorta* *P. maculata*
Polygonum aviculare *Rumex alpina* *R. patient*

Primulaceae

Anagallis arvensis *Androsace villosa* *Lysimachia punctata*
L. vulgaris *Primula farinosa* *P. veris*
Soldanella pusilla

Ranunculaceae

Aconitum lamarckii *Actaea spicata* *Adonis vernalis*
Anemone nemorosa *Aquilegia aurea* *A. nigricans*
Caltha palustris *Clematis recta* *C. vitalba*
Helleborus odoratus *Hepatica nobilis* *Nigella arvensis*
Ranunculus flammula *R. plantanifolius* *R. polyanthemnos*
R. repens *R. serbicus* *Thalictrum aquilegifolium*
T. minus *Trollius europaeus*

Resedaceae

Reseda lutea *R. luteola*

Rosaceae

Agrimonia eupatoria *Alchemilla* sp. *Amelanchier ovalis*
Aremonia agrimonoides *Cotoneaster integerrimus* *C. nebrodensis*
Crataegus monogyna *C. orientalis* *Filipendula ulmaria*
F. vulgaris *Fragaria vesca* *F. viridis*
Geum coccineum *G. montanum* *G. coccineum* × *montanum*
G. rivale *G. urbanum* *Potentilla argentea*
P. cinerea *P. erecta* *P. inclinata*
P. neglecta *P. micrantha* *P. obscura*
P. reptans *P. sulphurea* *P. ternata*
Prunus cersifera *P. mahaleb* *P. spinosa*
Rosa arvensis *R. myriacantha* *R. pendulina*

<i>Rubus idaeus</i>	<i>Rubus</i> sp.	<i>Sanuisorba minor</i>
<i>Sorbus aucuparia</i>	<i>S. graeca</i>	<i>S. torminalis</i>
<i>S. umbellata</i>		

Rubiaceae

<i>Asperula cynanchica</i>	<i>Cruciata glabra</i>	<i>C. laevipes</i>
<i>C. pedemontana</i>	<i>Galium album</i>	<i>G. anisophyllum</i>
<i>G. aparine</i>	<i>G. odoratum</i>	<i>G. palustre</i>
<i>G. rubioides</i>	<i>G. verum</i>	<i>Sherardia arvensis</i>

Rutaceae

Haplophyllum suaveolens

Salicaceae

<i>Populus tremula</i>	<i>Salix alba</i>	<i>S. caprea</i>
<i>S. lapponum</i>	<i>S. purpurea</i>	

Santalaceae

Thesium alpinum

Sapindaceae

<i>Acer campestre</i>	<i>A. platanoides</i>	<i>A. pseudoplatanus</i>
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Saxifragaceae

<i>Saxifraga exarata</i>	<i>S. luteoniridis</i>	<i>S. paniculata</i>
<i>S. pedemontana</i>	<i>S. rotundifolia</i>	<i>S. sempervivum</i>
<i>S. stellaris</i>		

Scrophulariaceae

<i>Gratiola officinalis</i>	<i>Scrophularia bulgarica</i>	<i>S. canina</i>
<i>S. nodosa</i>	<i>S. scopolii</i>	<i>Verbascum blattaria</i>
<i>V. davidoffii</i>	<i>V. decorum</i>	<i>V. densiflorum</i>
<i>V. longifolium</i>	<i>V. rorripifolium</i>	<i>V. speciosum</i>

Thymelaceae

<i>Daphne cneorum</i>	<i>D. mezereum</i>	<i>D. oleoides</i>
<i>Thymelaea passerine</i>		

Violaceae

<i>Viola arvensis</i>	<i>V. biflora</i>	<i>V. dacica</i>
<i>V. orbelica</i>		

Monocots**Amaryllidaceae**

<i>Allium rotundum</i>	<i>A. saxatile</i>	<i>A. vineale</i>
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Asparagaceae

Anthericum ramosum
M. tenuiflorum
O. sphaerocarpa

Muscari comosum
Ornithogalum comosum

M. neglectum
O. kochii

Colchicaceae

Colchicum autumnale

Cyperaceae

Carex echinata
Eriophorum latifolium

C. hirta

Eleocharis palustris

Iridaceae

Gladiolus imbricatus

Juncaceae

Juncus bufonius
J. trifidus
L. sylvatica

J. effusus
Luzula forsteri

J. inflexus
L. luzuloides

Liliaceae

Lilium jankae

L. martagon

Melanthiaceae

Paris quadrifolia

Veratrum album

Orchidaceae

Anacamptis coriophora
Cephalanthera rubra
D. cordigera
Epipactis palustris
Himantoglossum jankae
Neottia nidus-avis

A. morio
Corallorhiza trifida
D. incarnata agg.
Gymnadenia conopsea agg.
Limodorum abortivum
N. ovata

A. pyramidalis
Dactylorhiza baumanniana
D. saccifera
C. frivaldii
Neotinea ustulata
Orchis elegans

Poaceae

Aegilops neglecta
Aira elegantissima
Arrhenatherum elatius
Chrysopogon gryllus
Dactylis glomerata
Elymus repens
Melica ciliata
Phleum alpinum
Secale rhodopaeum
Trisetum flavescens

A. cylindricum
Alopecurus gerardii
Brachypodium sylvaticum
Cynosurus cristatus
Danthonia alpina
Holcus lanatus
M. nutans
Phragmites australis
Stipa capillata

Agropyron cristatum
Apera spica-venti
Bromus inermis
C. echinatus
Deschampsia caespitosa
Koeleria macrantha
Nardus stricta
Poa bulbosa
S. pilosa

Typhaceae*Sparganium angustifolium**S. erectum**Typha latifolia****Xanthoraceae****Asphodeline taurica***Birds** (H = heard only)

Cormorant	Grey Heron	White Stork
Quail (H)	Common Buzzard	Goshawk
Sparrowhawk	Peregrine	Kestrel
Collared Dove	Common Swift	Pallid Swift
Alpine Swift	Bee-eater (H)	Green Woodpecker
Great-spotted Woodpecker	Red-backed Shrike	Golden Oriole (H)
Jay	Magpie	Hooded Crow
Raven	Coal Tit	Great Tit
Blue Tit	Skylark	Crested Lark
Barn Swallow	Red-rumped Swallow	House Martin
Crag Martin	Chiffchaff	Blackcap
Common Whitethroat	Goldcrest	Wren (H)
Starling	Ring Ouzel	Blackbird
Song Thrush	Mistle Thrush	Robin
Nightingale (H)	Black Redstart	Stonechat
Nuthatch	Dipper	House Sparrow
Tree Sparrow	Dunnock	Grey Wagtail
White Wagtail	Spotted Flycatcher	Chaffinch
Bullfinch	Greenfinch	Crossbill
Goldfinch	Serin	Corn Bunting
Yellowhammer	Girl Bunting (H)	

Mammals

Red Squirrel	Common Shrew (dead)
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Reptiles/Amphibia

Common Frog	Balkan Stream Frog	Marsh frog
Newt sp (probably Smooth Newt)	Eastern Green Lizard	Common Wall Lizard
Erhard's Wall Lizard	Common Lizard	Slow Worm
Probable Dice Snake (seen only by Gill)		

Fish

Brown Trout	Minnow
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Lepidoptera

Swallowtail	Scarce Swallowtail	Black-veined White
Large White	Small White	Green-veined white
Orange Tip	Pale/Berger's Clouded Yellow	Clouded Yellow
Brimstone	Wood White sp	Green Hairstreak

Ilex Hairstreak	Blue-spot Hairstreak	Small Copper
Scarce Copper	Purple-shot Copper	Balkan Copper
Small Blue	Green-underside Blue	Iolas/Silver Studded Blue
Brown Argus	Adonis Blue	Common Blue
Mazarine Blue	White Admiral	Southern White Admiral
Common Glider	Map Butterfly	Peacock
Red Admiral	Painted Lady	Small Tortoiseshell
Comma	Queen of Spain Fritillary	Marbled Fritillary
Glanville Fritillary	Heath Fritillary	Spotted Fritillary
Marbled White	Balkan Marbled White	Great Banded Grayling
Woodland Ringlet	Meadow Brown	Grayling sp (Eastern Rock Grayling)
Small Heath	Chestnut Heath	Speckled Wood
Large Wall Brown	Grizzled Skipper	Chequered Skipper
Small Skipper	Large Skipper	Slender Scotch Burnet
Transparent Burnet	5-spot Burnet	Lackey (larvae)
Chimney Sweeper	Latticed Heath	Black-veined Moth
Humming-bird Hawk-moth	Broad-bordered Bee Hawk-moth	Clouded Buff
Burnet Companion	Ochraceous Wave	<i>Rhodostrophia calabra</i>
Silver-ground Carpet	Blood-vein	

Orthoptera

Great Green Bush-cricket	Speckled Bush-cricket	<i>Isophya</i> sp (maybe <i>I. rhodopensis</i>)
Poecilimon thoracica	Field Cricket	Great Banded Grasshopper

Odonata

Emperor	Broad-bodied Chaser	Beautiful Demoiselle
Banded Demoiselle	Common Blue Damselfly	Azure Damselfly
Scarce Emerald Damselfly		

Miscellaneous

Hairy Shieldbug	<i>Carpocoris fuscispinus</i>	<i>Eurydema ornata</i>
<i>Graphosoma lineatum</i>	Firebug	<i>Coreus marginatus</i>
Red and Black Froghopper	<i>Libelloides macaronius</i> (owlfly)	<i>Chrysops</i> sp horsefly
<i>Tabanus</i> sp horsefly	Carpenter Bee	Honey Bee
Red-tailed Bumblebee	Mountain Bumblebee	Rose Chafer
7-spot Ladybird	14-spot Ladybird	Lily Beetle
Firefly sp	<i>Cryptocephalus</i> sp (leaf beetle)	<i>Rutpela maculata</i>
<i>Thomisus</i> sp (crab spider)	<i>Philaeus chrysops</i> (jumping spider)	

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