

# Bulgaria – Flowers of the Balkans

Naturetrek Tour Report

19 – 26 June 2010

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Report compiled by Maureen Ponting

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Tour Leader                      Maureen Ponting (Naturetrek Leader and Botanist)  
   Peter Dilchev (Local Tour Manager)  
   Mitko Dimitrov (Bulgarian Botanist)

Tour Participants                Fenella Collins  
   Steve Brooks  
   Ann Brooks  
   Kathryn Hart  
   Joyce Aburrow  
   Angela Bentley  
   Ros Lucas  
   John Catterall

## Day 1

Saturday 19th June

Hotel Studenta

Vitosha Mountain National Park

We arrived in Sofia from the UK in the afternoon, to be welcomed by Peter Dilchev, our tour manager and Mitko Dmitrov, our Bulgarian Botanist.

We drove for about an hour to Hotel Studenta, a lodge surrounded by beautiful meadows, a lake and views of mountains. It was a beautiful sunny evening, and after settling in we met to explore the meadows, colourful with *Coronilla varia*, Crown Vetch, purple spikes of several *Salvia* spp. and the curious yellow and blue flowers of *Melampyrum scardicum*, Hungarian Cow-Wheat.

## Day 2

Sunday 20th June

Hotel Studenta

Vitosha Mountain N.P.

After a night of thunder and rain we first visited a beautiful 11<sup>th</sup> Century church, St George's, with interesting murals. The weather cleared and we drove to beautiful rolling limestone hills where we spent the rest of the morning. We were overwhelmed by the many beautiful flowers, some of them *Digitalis lanata*, Brown and White Foxgloves, spikes of St Bernard's Lily, *Anthericum liliago*. Also there were large patches of *Anthyllis aurea*, and *Onosma taurica*, Golden Drop.

In the afternoon we had a beautiful walk round the lake below our hotel, where we saw many more plants. The magnificent Balkan Lizard Orchid, *Himatoglossom caprinum*; and a very handsome tall Goatsbeard, *Trifolium strybrnyi* in the marshes round the lake. On drier ground, were some magnificent *Verbascum speciosum*.

We stopped beside a bank with two curious-looking pink and yellow Cow-Wheats, *Melampyrum arvense*, Field Cow Wheat and *M. cristatum* Crested Cow-Wheat. We arrived back at our hotel after a satisfying walk to change for dinner.

## Day 3

Monday 21st June

### Bansko

We woke to a fine day. Our first stop was at a marsh to see *Epipactus helleborine*, the Marsh Helleborine, and then on to the Rila Monastery. After lunch in a forest cafe we walked through mixed forests of beech and spruce below the Rila Mountains. We came across some interesting plants: *Orthilla secunda*, Nodding Wintergreen; Sweet Woodruffe, masses of Heath Spotted Orchid, the Bird's Nest Orchid and the endemic forest tree *Abies borissii-regis*. Before we reached Bansko we had another delightful stop to watch storks nesting on village chimneys and roofs. Some of the nests had young birds.

## Day 4

Tuesday 22nd June

### Bansko

We had a short drive into the Piren National Park, where it started to pour with rain and persisted during the walk to the Vikren Mountain Hut. The road leads through rocky meadows and high mountains. Unseasonably late snow was still lying on the edges of the streams. Beautiful clumps of *Iris reichenbachii* and *Crocus velutensis* were discovered on the scree, and, further down, *Viola grisebachiana* with large violet flowers. After lunch in the mountain hut we returned to the hotel to dry off, and later in the afternoon when the rain had stopped, the party divided, some to walk from the hotel and others to see Old Bansko.

## Day 5

Wednesday 23rd June

### Bansko

It was a beautiful sunny, windy day. We walked from the Vikren mountain hut up a steep path to the alpine zone of the Piren Mountains. We missed the first lake we had aimed for and found ourselves at Fish Lake, with beautiful clear water and a rushing stream running from it. Here we saw the high alpine *Primula minima* and the beautiful *Campanula alpina*. On the way through damp meadows we saw masses of *Primula farinosa*, Bird's Eye Primrose; patches of the incredibly blue *Gentiana pyrenaica* and pink cushions of *Dianthus microlepis*. Further down, the Balkan endemic orchid, *Gymnandenia frivaldii*, and in a wet patch, *Pinguicula balcanica*, Balkan Butterwort. We arrived back for a beautifully laid-out picnic in the rocks above the mountain hut. In the afternoon we had a short walk in the forest. The roadsides were lined with *Dactylorhiza saccifera*, Wedge-Lipped Orchid.

## Day 6

Thursday 24th June

### Hotel in Pamporova

It was a lovely clear day and we headed for the Rhodopi Mountains. On the way we visited three outstanding meadows. In the first one we saw *Acer tartarianum*, The Tartarian Maple, with bright red maple keys. Among the other numerous finds were the large yellow showy flowers of *Hypericum olympicum*.

The next meadow on a hill had a wet flush running down the side containing a mass of Cotton Grass and amongst it, purple spikes of Marsh Orchids, *Dactylorhiza cordiger* and *D. kalopisii*, as well as the more distinctive *Orchis laxiflora*. We also saw *Gladiolus imbricatus*, also *Campanula persicifolia* and a beautiful umbelica *Orlea grandiflora*. We had a picnic lunch set out in a roadside shelter. In the last meadow and pinewood below a large tourist hotel we saw *Limadorum abortivum*, Violet Bird's Nest Orchid. We then drove on to Pamporova through a long gorge where we stopped to see the endemic *Campanula lanata* with large white flowers spreading over the rocks.

## Day 7

Friday 25th June

### Hotel in Pamporova

We started the day by exploring the forest surrounding our hotel where we saw masses of Coralroot orchids, *Corallorhiza trifida*, and the One-flowered Wintergreen, *Moneses uniflora*. We boarded the bus and an hour's drive took us to the Trigrad Gorge in the Rhodopi Mountains. Walking up the gorge we saw Hop Hornbeam, *Ostrya carpinifolia* with its beautiful white hanging flower bracts. We had a lovely walk though the gorge looking at many rock plants until we reached the refuge where we had lunch.

After lunch we drove to a limestone outcrop above the gorge and saw some interesting saxifrages, *Saxifraga sempervivum* and *S. stribrnyi*, and *S. ferdinandi-coburgii* on the rocks and the elegant *Verbascum nobile*. We walked further up the valley towards the Greek border. Here we found *Rosa caesia*. We then boarded the bus which took us back into the gorge to see the endemic *Haberlea rhodopensis*, a relative of the African Violet, growing in profusion on damp rocks. Local honey flavoured with herbs, including the endemic *Sideritis scardica* and pine resins, was being sold by the roadsides, bought by some of us. The day in the gorge brought to a spectacular end a trip filled with so many exciting finds.

## Day 8

Saturday 26th June

### In flight

We had an early start to Sofia Airport, and said our warm goodbyes to Bulgaria, our Bulgarian friends, and each other.

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## Species List

### Plants

\*\* plants seen in previous years

#### **Aceraceae**

<i>Acer pseudoplatanus</i>	Sycamore	common
<i>A. tataricum</i>	Tartar Maple	meadows

#### **Anacardiaceae**

<i>Cotinus coggygria</i>	Smoke Tree	waysides
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#### **Apiaceae**

<i>Carum carvi</i>	Caraway	Day 3
<i>C. graecum</i>	Greek Caraway	Day 4
<i>Eryngium campestre</i>	Field Eryngo	meadows
<i>Heracleum sibiricum</i>	Large Hogweed	common
<i>Laserpitium siler</i>	Sermountain	Day 7: gorge
<i>Ligusticum mutellina</i>	Alpine Lovage, pink	Day 5
<i>Orlaya grandiflora</i>	large outer petals	meadows
<i>Pastinaca hirsuta</i>	yellow hairy parsnip	Day 7
<i>Peucedanum arenarium</i>		Day 7: gorge
<i>Pimpinella tragium</i>	meadows	
<i>Seseli libanotis</i>	tall plant	Day 7
<i>S. rhodopaeum</i>	Balkan endemic	Day 3
<i>S. pallasii</i>		Day 6
<i>S. rigidum</i>		Day 7
<i>Sanicula europaea</i>	Wood Sanicle	Day 3

#### **Aristolochiaceae**

<i>Asarum europaeum</i>		Day 7
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#### **Asclepiadaceae**

<i>Vincetoxicum hirsutinaria</i>	Swallow Wort	Day 1
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#### **Asteraceae**

<i>Achillea ageratifolia</i>	creeping, woolly leaves	Day 4 - rocks
<i>A. clusiana (multifida)</i>	v. aromatic, bracts tomentose	Day 2
<i>A. clypeolata</i>	yellow flowers, grey leaves	Day 2
<i>A. coarctata</i>	tall, yellow flowers	Day 6
<i>A. millifolium</i>	Yarrow	common
<i>Anthemis carpatica</i>	alpine	Day 5
<i>A tinctoria</i>	Yellow Camomile	meadows
<i>Aster alpinus</i>	Alpine Aster	Day 7
<i>Carduus kernerii</i>	Balkan endemic	Day 4
<i>subsp. scardicus</i>		
<i>C. nutans</i>	Musk Thistle	common
<i>Centaurea chrysolepis</i>	pale yellow flowers	Day 2 limestone
<i>C. mannagettae</i>	yellow flowers – endemic	Day 4
<i>C. jacea</i>	Brown-rayed Knapweed	Day 1

<i>C. orientalis</i>	pale yellow flowers	Day 2
<i>C. rutifolia</i>	pink fls, grey lvs Balkan end.	Day 2
<i>Cicorium intybus</i>	Chicory	roadsides
<i>Cirsium appendiculatum</i>	Balkan endemic	common
<i>C. canum</i>	purple flowers	Day 1
<i>Cicerbita alpina</i>	tall, blue flowers	Day 7
<i>Chondrilla urumoffii</i>	yellow flowers	Day 7
<i>Doronicum columnne</i>	Heart-leaved Leopardsbane	Day 4-5
<i>Hieracium aurantiacum</i>	Fox and Cubs	Day 4
<i>H.kittaniae</i>		Day 7
<i>H.panosum</i>	white woolly leaves	Day 4
<i>Hypochoeris maculata</i>	Spotted Cat's Ear	Day 7
<i>Inula aschersoniana</i>	large yellow flowers	Day 7
<i>I. ensifolia</i>	Narrow-leaved Inula	Day 2
<i>I. oculus-christi</i>	shaggy yellow flowers	Day 2
<i>I.bifrons</i>		Day 7
<i>Leucanthemum vulgare</i>	Ox-eye Daisy	common
<i>Leontodon hispidus</i>	Rough Hawkbit	common
<i>Petasites alba</i>	large leaves	common
<i>Pilosella officinarum</i>	Mouse-ear Hawkweed	common
<i>Ptilostemon afer</i>	tall thistle, purp. flowers	Day 4 & 7
<i>Scorzonera purpurea subsp. rosea</i>		Day 4
<i>Tanacetum corymbosum</i>	cluster of white flowers	Day 2
<i>Tragapogon pratensis</i>	Goatsbeard	meadows
<i>T. strybrnyi</i>	tall, yellow flowers	marshes, Day 2
<i>Xeranthemum annuum</i>	pink flowers	Day 2
<b>Betulaceae</b>		
<i>Alnus incana</i>	Grey Alder	common
<i>Betula pendula</i>	Silver Birch	common
<b>Boraginaceae</b>		
<i>Anchusa officinalis</i>	blue flowers	common – meadows
<i>Cerinthe minor</i>		Day 2
<i>Cynoglossum hungaricum</i>	red flowers	Day 2
<i>Echium vulgare</i>	Vipers Bugloss	v. common
<i>Lithospermum arvensis</i>	Corn Gromwell	roadsides
<i>Myosotis sylvatica</i>	Wood Forget-me-Not	Day 3
<i>Onosma heterophylla</i>	pale yellow	Day 6
<i>O. taurica</i>	yellow flowers	Day 2
<i>Pulmonaria rubra</i>	red flowers	Day 3
<i>Symphytum ottomanum</i>	Turkish Comfrey	Day 7
<b>Brassicaceae</b>		
<i>Alyssum murale</i>	yellow flowers	Day 2
<i>A.tortuosum</i>	yellow flowers	Day 2
<i>Arabis turruta</i>	Tower Cress	common
<i>Barbarea vulgaris</i>	Winter Cress	Day 5
<i>Berteroa incana</i>	white spikes	Day 6

<i>Cardamine glauca</i>	white notched petals	Day 5
<i>Clypeola jonthlaspi</i>	Disc Cress, yellow flowers	Day 2
<i>Erysimum cuspidatum</i>	yellow spikes	Day 4
<i>Rorippa sylvestris</i>	yellow flowers	Day 3
<i>Thlaspi arvense</i>	Pennycress	Day 2
<i>T. praecox</i>	white flowers, glaucous lvs.	Day 4
<b>Campanulaceae</b>		
<i>Asyneuma limonifolia</i>	blue spikes	Day 7
<i>Campanula alpina subsp. orbelica</i>	cluster of bells	days 4 & 5
<i>C. glomorata</i>	Clustered Bellflower	Day 2 & 6
<i>C. lanata</i>	white flowers, endemic	gorge, day 6
<i>C. orphanidea</i>	endemic	day 7
<i>C. patula</i>	Spreading Bellflower	meadows
<i>C. persicifolia</i>	Peach-leaved Bellflower	Day 6
<i>C. scutellata</i>	Balkan endemic, branched	Day 6
<i>C. sparsa**</i>	Balkan endemic branched ann.	Day 7
<i>C. rapunculus</i>	Nettle-lvd. Campanula	Day 5
<i>C. trichocalycina</i>	Rila Forest	Day 3
<i>C. velebitica</i>	like Harebell	Day 7
<i>Jasione bulgarica</i>	Sheep's Bit. Endemic	Day 5
<b>Caprifoliaceae</b>		
<i>Sambucus ebulus</i>	Dwarf Elder	waysides
<i>S. racemosa</i>	Mountain Elder	Day 3
<i>Viburnum opulus</i>	Guelder Rose	common
<b>Caryophyllaceae</b>		
<i>Arenaria biflora</i>	Two-flowered Sandwort	Day 4&5 - Alpine
<i>A. rhodopaea</i>	endemic	Day 7 - gorge
<i>A. serpyllifolia</i>	creeping, white flowers	Day 2
<i>Cerastium alpinum</i>	Alpine Mouse-ear	Day 5 alpine
<i>C. cerastoides</i>		Day 5
<i>C. petricola</i>		Day 1
<i>Dianthus armeria</i>	Deptford Pink	Day 6 – meadow
<i>D. cruentus**</i>	tall, dark calyx, purple fls.	Day 1 & 2 – meadow
<i>D. deltoides</i>	pink flowers, white spots	meadows, Day 6
<i>D. giganteus</i>	tall, pink	Day 2 & 6 – meadows
<i>D. microlepis</i>	end. forming cushions, pink	Day 5 – alpine
<i>D. petraeus</i>	white flowers, fine leaves	Day 4 – rocks
<i>D. pinifolius</i>	fine leaves, purple fls.	Day 6
<i>Gypsophila muralis</i>	pink flowers	Day 2
<i>Kohlruschia velutina</i>	pink flowers	Day 2
<i>Lychnis coronaria</i>	Rose Campion	meadows
<i>L. flos-cuculi</i>	Ragged Robin	wet meadows
<i>L. vesicaria</i>	Sticky Catchfly	Day 4
<i>Minuartia verna</i>	Vernal Sandwort	common
<i>Moehringia pendula</i>	Rock Sandwort, endemic	Day 3 & 7, gorge

<i>Paronychia capitata</i>	prostrate	Day 2
<i>Scleranthus neglectus</i>	low cushions	common
<i>Silene alba</i>	White Champion	Day 2
<i>S. armeria</i>	Sweet William Catchfly	Day 2
<i>S. conica</i>	Sand Catchfly	Day 6
<i>S. flavescens</i>	yellow flowers	rocks and meadows
<i>S. italica</i>	Italian Catchfly	Day 2
<i>S. otites</i>	Yellowish flowers in whorls	Day 2
<i>S. roemerii</i> **	tall, white term. fls endemic	Day 5
<i>S. vulgaris</i>	Bladder Champion	common
<i>S. waldsteinii</i> **	endemic	Day 7 –meadows
<i>Stellaria graminea</i>	Lesser Stitchwort	Day 1 –meadows
<b>Cistaceae</b>		
<i>Fumana procumbens</i>	yellow flowers	Day 2
<i>Helianthemum canum</i>	Hoary Rockrose	common
<i>H. nummularium</i>	Common Rockrose	common
<b>Convolvulaceae</b>		
<i>Convolvulus arvensis</i>	Field Bindweed	waysides
<i>C. cantabrica</i>	Pink Convolvulus	Day 2
<b>Cornaceae</b>		
<i>Cornus mas</i>	shrub	Day 2
<i>C. sanguinea</i>	shrub, white flowers,	common
<b>Corylaceae</b>		
<i>Carpinus betulus</i>	Hornbeam	common
<i>C. orientalis</i>	Eastern Hornbeam	common
<i>Corylus avellana</i>	Hazel	common
<i>Ostrya carpinifolia</i>	Hop Hornbeam	Day 7
<b>Crassulaceae</b>		
<i>Jovibarba heuffelii</i>	rosettes on rocks	gorge
<i>Rhodiola rosea</i> **	Roseroot	Day 5
<i>Sedum acre</i>	Biting Stonecrop	common
<i>S. album</i>	White Stonecrop	Day 4
<i>S. dasyphyllum</i>	Thick-leaved Stonecrop	Day 5
<i>S. hispanicum</i>	six white petals	Day 2 & 7
<i>S. ochroleucum</i>	Yellow Stonecrop	Day 2 & 5
<i>Sempervivum leucanthemum</i> **	Bulgarian endemic	Day 6
<b>Dipsacaceae</b>		
<i>Knautia arvensis</i>	tall, pink flowers	meadows
<i>K. drymeia</i>	purp/pink flowers	meadows
<i>Scabiosa triniifolia</i>	pale yellow	Day 2 & 6
<b>Ericaceae</b>		
<i>Bruckenthalia spiculifolia</i>	Spike Heath	Day 5



<i>Vaccinium myrtillus</i>	Bilberry	Day 5
<i>V. uliginosum</i>	Marsh Bilberry	Day 5
<b><i>Euphorbiaceae</i></b>		
<i>Euphorbia amygdaloides</i>	Wood Spurge	forests
<i>E. barrelieri</i>		Day 2
<i>E. cyparissias</i>	Cypress Spurge	common
<i>E. heliscopia</i>	Sun Spurge	<i>common</i>
<i>E. myrsinites</i>	Broad-lvd. Glaucous Spurge	Day 6
<i>E. seguerana</i>		Day 1
<b><i>Fabaceae</i></b>		
<i>Anthyllis aurea</i>	showy yellow flowers	Day 2
<i>A. vulneraria</i>	Kidney Vetch	common
<i>Astragalus angustifolius</i>	narrow leaved	Day 7
<i>A. glycyphyllos</i>	Wild Liquorice	common
<i>A. monspessulanus</i>		Day 7
<i>A. onobrychis</i>	dark red flowers	meadows
<i>Chamaecistus absinthoides</i>	endemic, grey leaves	common in
	meadows	
<i>C. hirsutus</i>	Hairy Broom	Day 2
<i>Chamaespartinum sagittale</i>	Winged Broom	Day 2
<i>Coronilla scorpioides</i>	Annual Scorpion Vetch	Day 2
<i>C. varia</i>	Crown Vetch	common
<i>Dorycnium pentaphyllum</i>	white flowers	Day 2
	subsp. <i>herbaceum</i>	
<i>Genista carinalis</i>	spreading shrub, long keel	Day 6
<i>G. lydia (rumelica)</i>	shrub (1m)	Day 6
<i>G. tinctoria (depressa)</i>	Dyers Greenweed	Day 2 & 4
<i>G. subcapitata</i>	flowers sessile in heads - Balkan endemic	Day 5
	Horseshoe Vetch	meadows
<i>Hippocrepis comosa</i>		
<i>Lathyris tuberosus</i>	bright crimson	Day 1
<i>Lotus corniculatus</i>	Birds Foot Trefoil	common
<i>Onobrychis alba</i>	white flowers	Day 2
<i>O. arenaria</i>	Small Sanfoin	meadows
<i>O. montana susp. scardicus</i>	Balkan endemic, pink	Day 4 – rocks
<i>Trifolium alpestre</i>	Mountain Zig-zag Clover	Day 1 & 2
<i>T. alpinum</i>	Alpine Clover	Day 4
<i>T. arvense</i>	Haresfoot Clover	meadows
<i>T. aureum</i>	Large Hop Trefoil	common
<i>T. dubium</i>	Lesser Yellow Trefoil	common
<i>T. incarnatum</i>	Crimson Clover	Day 1
<i>T. medium</i>	Zig-zag Clover	Day 4
<i>T. michelianum</i>		Day 1
<i>T. montanum</i>	Mountain Clover	Day 6
<i>T. ochroleucum</i>	Sulphur Clover	common
<i>T. velenovskyi</i>	yellow flowers	Day 7
<i>Vicia grandiflora</i>	white flowers	Day 1
<i>V. cracca</i>	Fodder Vetch	Day 1

<i>V. sepium</i>	Bush Vetch	meadows
<i>V. panonica</i>		Day 2
<b>Fagaceae</b>		
<i>Fagus sylvatica</i>	Beech	mixed forests
<i>Quercus cerris</i>	Turkey Oak	mixed forests
<i>Q. pubescens</i>	White Oak	mixed forests
<b>Gentianaceae</b>		
<i>Gentiana pyrenaica</i>	Pyrenean Gentian	Day 5 – alpine
<i>G. verna</i>	Spring Gentian	Day 5 - alpine
<b>Geraniaceae</b>		
<i>Erodium cicutarium</i>	Common Storksbill	waysides
<i>Geranium coeruleatum</i>	bright blue flowers Balkan end	.Day 6
<i>G. macrorrhizum</i>	Rock Cranesbill	common
<i>G. phaeum</i>	Dusky Cranesbill	Day 3
<i>G. pyrenaicum</i>	Pyrenean Cranesbill	common
<i>G. rotundifolium</i>	Round-leaved Cranesbill	Day 4
<i>G. sanguineum</i>	Bloody Cranesbill	Day 5 – meadows
<i>G. sylvaticum</i>	Wood Cranesbill	Day 3
<b>Gesneraceae</b>		
<i>Haberlea rhodopensis</i>	endemic	gorge – Day 7
<b>Globulariaceae</b>		
<i>Globularia cordifolia</i>	blue flowers	Day 4
<i>G. (aphyllanthes) punctata</i>	Common Globularia	Day 2
<b>Hypericaceae</b>		
<i>Hypericum cerastoides</i> **	large flowers in low patches	Day 6
<i>H. olympicum</i>	large showy yellow flowers	Day 6
<i>H. perforatum</i>	Common St John's Wort	common
<i>H. rumeliacum</i>	Balkan endemic	Day 2
<i>H. tetraptrum</i>	Square-stemmed St John's Wort wet meadows	
<i>H. umbellatum</i>	conspicuous net veins	Day 6
<b>Lamiaceae</b>		
<i>Acinos alpinus</i>	Alpine Catmint	Day 2 & 4
<i>A. suaveolens</i>	long pointed leaves	Day 2
<i>Ajuga chamaepytis</i> **	Ground Pine	
<i>A. genevensis</i>	Blue Bugle	common
<i>A. laxmannii</i>	blue and cream flowers	Day 2
<i>A. pyramidalis</i>	alpine	Day 5
<i>Clinopodium vulgare</i>	Wild Basil	Day 1
<i>Galeopsis speciosa</i>	Large-flowered Hemp Nettle	common
<i>Lamium garganicum</i>	Large Red Deadnettle	common
<i>Marrubium friwaldskyanum</i>	Bulgarian endemic	Day 7
<i>M. peregrinum</i>	flowers white, grey lvs.	Day 2

<i>Mentha longifolia</i>	Horse Mint	Day 3 marsh
<i>Micromeria dalmatica</i>	Balkan endemic	Days 2 & 7
<i>Nepeta nuda</i>	Hungarian Catmint	meadows
<i>Oreganum vulgare</i>	Marjoram	Day 2
<i>Prunella grandiflora*</i>	Large Self-heal	meadows
<i>P. lacineata</i>	white flowers	meadows
<i>Salvia. nemorosa</i>	Wild Sage	Day 2
<i>S. verticillata</i>	Whorled Salvia	Days 1 & 2
<i>S. virgata</i>	purple spikes	common
<i>Satureja montana</i>	Winter Savory	Day 2
<i>Scutellaria alpina</i>	Alpine Skullcap	Day 4
<i>S. altissima</i>	blue and white flowers	Day 7
<i>Sideritis montana</i>	yellow fls. forming patches	Day 2
<i>S. scardica</i>	Balkan endemic	Day 7 - rocks
<i>Stachys angustifolia</i>	Glabrous Woundwort	Day 6
<i>S. germanica</i>	Downy Woundwort	Day 2
<i>S. officinalis</i>	Betony	meadows
<i>S. recta</i>	Yellow Woundwort	meadows
<i>Teucrium chamaedrys</i>	Wall Germander	common
<i>T. montanum</i>	Mountain Germander	Day 2 - meadows
<i>T. polium</i>	Felty Germander	Day 2
<i>Thymus callieri</i>	Day 2	
<i>T. striatus</i>	Thyme	common in mountains
 <b><i>Lentibulariaceae</i></b>		
<i>Pinguicula balcanica</i>	Balkan Butterwort	Day 4 & 5
<i>P. vulgaris</i>	Common Butterwort	Day 4
 <b><i>Linaceae</i></b>		
<i>Linum angustifolium</i>	white flowers	Day 2 and 7
<i>L. austriacum</i>	blue flowers	Day 2
<i>L. bienne</i>	Pale Flax	Day 2
<i>L. capitatum</i>	large yellow flowers	Day 7
<i>L. catharticum</i>	Purging Flax	common
 <b><i>Malvaceae</i></b>		
<i>Lavatera thuringiaca</i>	tall, pink flowers	Day 1
 <b><i>Onagraceae</i></b>		
<i>Epilobium dodonaei</i>	large rosy/purple flowers	Day 7
 <b><i>Oleaceae</i></b>		
<i>Fraxinus ornus</i>	Flowering Ash	Day 2
 <b><i>Orobanchaceae</i></b>		
<i>Orobanche minor</i>	Common Broomrape	common Day 2
<i>O. ramosa</i>	Branched Broomrape	Day 2

**Plantaginaceae**

<i>Plantago altissima</i>	like <i>P. Lanceolata</i> but larger	Day 2
<i>P. arenaria</i>	Branched Plantain	Day 6
<i>P. atrata</i>	Mountain Plantain	Day 6
<i>P. subulata</i>	long flower head	Day 2

**Plumbaginaceae**

<i>Armeria rumelica</i>	Thrift – pale pink flowers	Day 6 – meadows
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**Primulaceae**

<i>Lysimachia nummularia</i>	Creeping Jenny	Day 2 – meadows
<i>L. vulgaris</i>	Yellow Loosestrife	meadows
<i>Primula elatior</i>	Oxlip	Day 4
<i>P. farinosa</i>	Bird's Eye Primrose	Day 5 - alpine
<i>P. minima</i>	Least Primrose	Day 5 - alpine
<i>Soldanella hungarica</i>	dense hairs on stems	Day 3
<i>S. rhodopaea</i>	endemic	Day 5

**Polygalaceae**

<i>Polygala comosum</i>	lilac/pink flowers	Day 4
<i>P. major</i>	large spikes of red/purp. fls.	common

**Polygonaceae**

<i>Persicaria bistorta</i> **	Bistort	
<i>Rumex alpinus</i>	Monks Rhubarb	common – mountains
<i>R. acetosa</i>	Common Sorrel	common
<i>R. acetosella</i>	Sheep's Sorrel	Day 3

**Pyrolaceae**

<i>Orthilla secunda</i>	Nodding Wintergreen	Day 3 – forests
<i>Moneses uniflora</i>	One-flowered Wintergreen	Day 7
<i>Pyrola rotundifolia</i> **	Round-leaved Wintergreen	Day 5 - forests

**Ranunculaceae**

<i>Anemone nemorosa</i>	Wood Anemone	Day 3
<i>Aquilegia aurea</i>	endemic yellow flowers	Day 5
<i>Caltha palustris</i>	King Cup	Day 5
<i>Clematis recta</i>	white flowers	Day 2 – meadows
<i>C. vitalba</i>	Travellers Joy	hedges, common
<i>Consolida regalis</i>	Larkspur	Day 4
<i>Helleborus odoratus</i>		Day 2
<i>Ranunculus montana</i>	Mountain Buttercup	Day 4 – snowmelt
<i>R. ophioglossifolius</i>	Red Data	Marsh, Day 6
<i>R. trichophylus</i>	white flowers, aquatic	Day 7
<i>Thalictrum aquilegifolium</i>	Great Meadow Rue	Day 4
<i>T. minus</i>	Lesser Meadow Rue	common
<i>Troillius europaeus</i>	Globe Flower	Day 5

**Rhamnaceae**

<i>Rhamnus saxatilis</i>	spiny shrub	Day 7
<b>Rosaceae</b>		
<i>Alchemilla glaucescens</i>	Lady's Mantle	Day 5
<i>Aremonia agrimonoides</i>	Bastard Agrimony	Day 4
<i>Cotoneaster integerrimus</i>	pinkish flowers	Day 4
<i>C. nebrodensis**</i>	densely hairy	Day 5
<i>Crataegus orientalis</i>	Eastern Hawthorn	Day 5
<i>Filipendula vulgaris</i>	Dropwort	common - meadows
<i>Geum coccineum</i>	bright red flowers	Day 4
<i>G. montanum</i>	Mountain Avens	Day 5
<i>G. rivale</i>	Water Avens	Day 5
<i>Potentilla argentea</i>	grey leaves	meadows
<i>P. aurea subsp. ternata</i>	Golden Cinquefoil	Day 5
<i>P. erecta</i>	Tormentil	common
<i>P. recta</i>	Sulphur Cinquefoil	Day 2
<i>Pyrus communis</i>	Wild Pear	Day 2
<i>Rosea caesia</i>	Northern Dog Rose, pink	Day 7
<i>R. micrantha</i>	Small-flowered Sweet-Briar	Day 2
<i>Rosa pendulina</i>	Alpine Rose	common
<i>R. pimpinellifolia</i>	Burnet Rose	Day 2 & 4
<i>Rubus thyranthus</i>	spikes of white flowers	Day 2 – meadow
<i>Sorbus aucuparia</i>	Rowan	Day 3
<i>S. torminalis</i>	Wild Service Tree	Day 7
<i>Sanguisorba minor</i>	Salad Burnet	common
<b>Rubiaceae</b>		
<i>Asperula purpurea</i>	Woodruff	Day 7
<i>A. cynanchica**</i>	Squinancy Wort	Day 2
<i>Cruciata glabra</i>	meadows	
<i>C. laevipes</i>	Crosswort	meadows
<i>Galium album</i>	Tall Bedstraw	meadows
<i>G. anisophyllum</i>	cushion-forming	alpine, Day 4 & 5
<i>G. odoratum</i>	Sweet Woodruff	forests
<i>G. verum</i>	Lady's Bedstraw	meadows
<b>Santalaceae</b>		
<i>Thesium alpina</i>	flowers 4-lobed	Days 2 & 5
<i>T. arvense</i>		Day 2
<i>T. dollineri</i>		Day 2
<i>T. linophyllum</i>	narrow leaves	Day 2
<b>Salicaceae</b>		
<i>Salix alba</i>	White Willow	along rivers
<i>S. capraea</i>	Goat Willow	common
<i>S. lapponum**</i>	Lapland Willow	Day 2
<b>Saxifragaceae</b>		
<i>Saxifraga luteoviridis**</i>	yellow/green flowers	Day 4
<i>S. paniculata</i>	Paniculate Saxifrage	Day 4

<i>S. rotundifolia</i>	Roundleaved Saxifrage	forests
<i>S. sempervivum</i>	pendulous red flowers	Day 7
<i>S. stellaris</i>	upright pinkish-purple fls	Day 7
<i>S. pedemontana</i>	white flowers	Day 5
<i>S. sibirnyi</i>	lime-encrusted purple fls.	Rocks, Day 7
<i>S. ferdinandi-coburgi</i>	hard rosettes on rocks	Day 7
<b>Scrophulariaceae</b>		
<i>Bartsia alpina</i>	Alpine Bartsia	meadows
<i>Digitalis grandiflora</i>	Yellow Foxglove	Day 2
<i>D. lanata</i>	brown/white flowers	meadows
<i>D. viridiflora</i>	Green-flowered Foxglove	Day 6
<i>Euphrasia pectinata</i>	Eyebright	Day 2
<i>Linaria genistifolia</i>	yellow flowers	Day 7
<i>Melampyrum arvense</i>	Field Cow-Wheat	Day 2
<i>M. cristatum</i>	Crested Cow-Wheat	Day 2
<i>M. pratense</i>	Common Cow-Wheat	Day 2
<i>M. scardicum</i>	yellow-blue flowers	Day 1
<i>M. sylvaticum</i>	Cow-Wheat	common
<i>Pedicularis orthantha</i>	reddish-purple fls.	Day 4
<i>Rhinanthus rumelicus</i>	Hay Rattle - tall	meadows
<i>R. javorkae</i>		Day 7
<i>Scrophularia canina</i>	Alpine Figwort	Day 2
<i>Verbascum blattaria</i>	Moth Mullein	Day 2
<i>V. davidoffi</i>	endemic	Day 4
<i>V. longifolium</i>	white woolly leaves	Days 3,4 &5
<i>V. banaticum</i>		Day 2
<i>V. jordanovii</i>		Day 2
<i>V. speciosum</i>	very branched	lakeside Day 2
<i>V. nobile</i>	elegant, tall	Day 7
<i>V. phlomoides**</i>	densely woolly	Day 2
<i>Veronica alpina</i>	Alpine Speedwell	Day 5
<i>V. belledioides</i>	Violet Speedwell	Day 5
<i>V. chamaedrys</i>	Germander Speedwell	common
<i>V. officinalis</i>	Heath Speedwell	Day 5
<i>V. urticifolia</i>	Nettle-leaved Speedwell	Day 4
<b>Thymelaceae</b>		
<i>Daphne alpina</i>	dwarf shrub, white flowers	Day 4
<i>D. cneorum</i>	prostrate, pink flowers	Day 4
<i>D. mezereum</i>	Mezereon	Day 4
<i>D. oleoides</i>	white, very scented flowers	Day 4
<b>Ulmaceae</b>		
<i>Ulmus minor</i>	Smooth-leaved Elm	Day 3
<b>Valerianaceae</b>		
<i>Valeriana montana</i>	Mountain Valerian	Day 4
<i>V. officinalis</i>	Valerian	meadows

**Violaceae**

<i>Viola aetolica</i>	white/yellow flowers	Day 6, gorge
<i>V. biflora</i>	Yellow Wood Violet	Day 4
<i>V. dacica</i>	large fls, violet or yellow	mountains
<i>V. grisebachiana</i>	large violet fls., lvs. ovate	Day 4, snowmelt
<i>V. pyrenaica</i>	Pyrenean Violet	Day 4, snowmelt
<i>V. tricolor</i>	Heartsease	common

**MONOCOTYLEDONS****Dioscoreaceae**

<i>Tamus communis</i>	Black Bryony	Day 2
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**Iridaceae**

<i>Crocus veluchensis</i>	lilac/purple flowers	Day 4 – snowmelt
<i>Gladiolus imbricatus</i>	dark red flowers	meadows
<i>Iris reichenbachii</i>	greenish-yellow	Day 4 – rocks

**Liliaceae**

<i>Anthericum liliago</i>	St Bernard's Lily	Day 2
<i>Asphodeline taurica</i>	white spikes	Day 2
<i>Lilium martagon</i>	Martagon Lily	Days 3 & 7
<i>Muscari comosum</i>	Tassel Hyacinth	Day 2 – meadows
<i>Ornithogalum pyrenaicum</i>	Bath Asparagus	meadows
<i>O. umbellatum</i>	Star of Bethlehem	common
<i>Paris quadrifolia**</i>	Herb Paris	Day 7
<i>Polygonatum odoratum</i>	Scented Solomon's Seal	Day 6
<i>P. verticillatum</i>	Whorled Solomon's Seal	Day 3
<i>Scilla bifolia*</i>	blue flowers	Day 4
<i>Veratrum album</i>	White False Helleborine	common alpine

**Orchidaceae**

<i>Anacamptis pyramidalis</i>	Pyramid Orchid	Day 1
<i>Cephalanthera rubra</i>	Red Helleborine	Days 4 & 5
<i>Corallorhiza trifida</i>	Coralroot Orchid	Day 7
<i>Dactylorhiza cordigera</i>	Heart-shaped Marsh Orchid	Day 4 & 6
<i>D. kalopisii</i>	purple spikes	Day 6
<i>D. maculata</i>	Heath Spotted Orchid	common
<i>D. saccifera</i>	Wedge-lipped Orchid	roadsides
<i>D. sambucina</i>	Elder-flowered Orchid	Day 5
<i>Epipactis helleborine</i>	Broad-leafed Helleborine	Day 4
<i>E. palustris</i>	Marsh Helleborine	Day 3
<i>Gymnadenia albida</i>	Small White Orchid	Day 5
<i>G. conopsea</i>	Fragrant Orchid	Day 6
<i>G. frivaldii</i>	Balkan endemic	Day 5
<i>Himantoglossum caprinum</i>	Balkan Lizard Orchid	Day 2
<i>Listera ovata</i>	Twayblade	Day 6
<i>Neottia nidus-avis</i>	Bird's Nest Orchid	Day 3
<i>Limnorchis abortivum</i>	Violet Birds Nest Orchid	Day 6
<i>Orchis coriophora</i>	Bug Orchid	Day 6
<i>O. laxiflora</i>	Lax-flowered Orchid	marshy meadows
<i>O. morio</i>	Green Winged Orchid	Day 6

*O. ustulata*  
*Platanthera chlorantha*

Burnt Tip Orchid  
Greater Butterfly Orchid

Day 6  
meadows and pine  
wood

### CONIFERS

<i>Abies alba</i>	Silver Fir
<i>A. borisii-regis</i>	Day 3
<i>Juniperis communis</i>	Juniper
<i>J. oxycedrus</i>	Prickly Juniper
<i>Larix europaea</i>	Larch
<i>Picea abies</i>	Norway Spruce
<i>Pinus leucodermis</i>	Bosnian Pine
<i>P. mugo</i>	Mountain Pine
<i>P. nigra</i>	Black Pine
<i>P. peuce</i>	Macedonian Pine
<i>P. sylvestris</i>	Scots Pine

### FERNS

<i>Asplenium ruta-muraria</i>	Wall Rue
<i>A. septentrionale</i>	Forked Spleenwort
<i>A. trichomanes</i>	Maidenhair Spleenwort
<i>Athyrium felix-femina</i>	Lady Fern
<i>Botrychium lunaria</i>	Moonwort
<i>Ceterach officinarum</i>	Rusty-back Fern
<i>Cystopteris alpina</i>	Alpine Brittle Bladder Fern
<i>C. fragilis</i>	Brittle Bladder Fern
<i>Dryopteris affinis</i>	Scaly Male Fern
<i>D. austriaca</i>	Broad Buckler Fern
<i>D. expansa</i>	Northern Buckler Fern
<i>D. felix-mas</i>	Male Fern
<i>Gymnocarpium dryopteris</i>	Oak Fern
<i>G. robertianum</i>	Limestone Fern
<i>Phegopteris connectilis</i>	Beech Fern
<i>Polypodium vulgare</i>	Common Polypody
<i>Polystichum aculeatum</i>	Hard Shield Fern
<i>P. lonchitis</i>	Holly Fern
<i>P. setiferum</i>	Soft Shield Fern

### Books used:

Flowers of Greece and the Balkans (*Oleg Polunin*)  
Alpine Flowers of Britain & Europe (*Christopher Grey-Wilson and Marjorie Blamey*)  
Conspectus of the Bulgarian Vascular Flora (*Dimitar Dimitrov*)