

# The Pontic Alps

## *Summer on Lazistan's High Passes*

### A Greentours Trip Report

24<sup>th</sup> July – 6<sup>th</sup> August 2012

Led by Christopher Gardner & Başak Gardner

#### Day 1                      UK to Turkey

All those due to arrive did and we made our way to the hotel in Trabzon.

#### Day 2                      Trabzon to Camlik

There was a latish start to the tour to allow us to collect Roy and Iona and then buy the all - important picnic supplies, but by mid-morning we were off driving along the Black Sea coast for a while and then turning inland, stopping to buy fresh fruit and then driving on into the lush green hills. We stopped below some hills clad in tea bushes (big sacks of tea leaves were to be seen deposited along the road awaiting collection). In the adjacent herbage was the blue *Salvia forskhaeli* and in the river were a pair of Grey Wagtails. We pushed on to the hotel nestled in among spruce trees and prepared lunch.

The afternoon was spent a few miles up the road where we found many new flowers. Our first stop had tall *Cirsium pseudopersonata*, the impressive silvery *Eryngium giganteum*, flat white heads of *Tanacetum macrophyllum* and little pink *Sedum spurium* wedged in rock crevices. Higher up in a graveyard there were both branched *Campanula lactiflora* (many flowers) and spicate *latifolia* (few large hairy flowers), mauve *Geranium ibericum* and black-eyed magenta *Geranium psilostemon* and *Dianthus carmelitarum* as Common Rosefinches sang away and eventually showed themselves along with a Sedge Warbler. Elsewhere along the road was the woolly phyllaried yellow *Centaurea helenoides*, the huge hogweed *Heracleum platytaenium* and then orange *Papaver lateritium*, *Polygonum bistorta*, hummocks of *Hypericum hyssopifolium* ssp *microcalycinum* and spiny *Cirsium echinus* before it was time to return.

#### Day 3                      Ovit Dağı

The high slopes of Ovit Dağı was our target for the morning but we stopped first for the backlit flowers of *Papaver lateritium*. Reaching the pass we all walked out onto the short turf to explore

at our own pace. There were pretty clumps of purple *Gentiana pyrenaica*, deep pink *Geranium cinereum*, delicate white *Euphrasia lebardensis* as Shore Lark and Water Pipits sang. Close to the small rocky streams were *Cerastium cerastoides*, *Pinguicula balcanica* and a few *Primula auriculata* and a Clouded Apollo flew over as we looked at these. A bit higher up we were lucky to see a few *Gentiana nivalis* (a scarce species in Turkey) and then the first large bells of *Campanula tridentata*. A large boulder field had families of Alpine Accentors chasing about and there were a few Snowfinches too and Roy and Iona picked up a number of Green Sandpipers in the higher marshes. The snow had already retreated quite a way this year but I could see some higher patches among the rocks and we climbed up to these, huffing and puffing a bit with the altitude. It was all well worth it though for at the base of the rocks was a mixture of *Primula auriculata* (efarinoso, dense inflorescence) and *longipes* (farinoso with long pedicels) and then scrambling a bit higher into a rocky gully were some superb plants of *Primula elatior meyeri*. The clouds were gathering by now and rain was fast approaching and we made it back just in time. Lunch was again back at the hotel where it wasn't raining.

Afterwards we climbed up to fantastic area of super-flowery meadows with blue *Aquilegia olympica* and *Scabiosa caucasica*, the big white daisy *Anthemis melanoloma*, abundant pink *Polygonum bistorta* and a few pure white *Anemone narcissiflora* still in bloom. A Golden Eagle soared out as we climbed up the meadow and then once again back on the road there was a Mountain Chiffchaff and Common Rosefinches. Along the roadside were stands of darkest purple flowered *Pedicularis atropurpurea* and yellowish *condensata*, a solitary yellow globe orchid *Traunsteinera sphaerica* was found along with some fine *Dactylorhiza urovilleana* and endless drifts of other lovely flowers such as *Aster caucasica*, delicate pink *Pimpinella rhodantha* and orangey *Inula orientalis*. We drove down for a bit and then stopped for *Gentianella caucasica* and good spikes of *Digitalis ferruginea* as dozens of Scotch Arguses gathered along the roadside to prepare for roosting.

## Day 4                      Anzer

Lush forest covers the lower parts below the big grassy pastures or yaylas and as we drove up towards Anzer we stopped beside one verdant section where there were big stands of *Campanula lactiflora*, even taller *Prenanthes cacaliifolia* and *Cicerbita bourgei*, as well as creamy *Salvia glutinosa*, *Cirsium hypoleuca*, and the white flowered *Knautia involucrata* with Greenish Warbler calling in the background. Further on were some very nice deep pink *Silene armeria* and then up onto the yayla with tall meadows brimming with *Delphinium formosum*, red-pink *Lathyrus rotundifolius*, *Astrantia maxima*, *Centaurea helenoides*, masses of pink *Coronilla varia* and then as we drove on a solitary *Crocus scharojanii* flowering in a freshly cut pasture. Curious locals looked on at the crazy foreigners photographing the little golden flower. There was a handsome male Rosefinch too before we continued up to pass driving past amazing displays of flowers. But there was method in the madness because once we'd gained the pass at just under

three thousand metres we set out to explore the short turf and slopes finding the lovely *Corydalis conorhiza*, clumps of the white daisy *Tripleurospermum melanolepis* and the stemless pink thistle *Jurinea moschus* as Kestrels flew about. On a steeper bit of scree by the road there were a few clumps of *Asperula gracilis* in the rocks around about were some fine clumps of *Campanula aucheri*.

Driving back down we stopped a couple of times, first for a big colony of greyish-blue *Corydalis alpestris* growing in heavy scree close to creamy-yellow *Coronilla orientalis*. Snow Finches were about and a juvenile Golden Eagle cruised across the slope. There were flowers everywhere with drifts of blue *Centaurea nigrifimbriata*, then *Geum coccineum*, great waving stands of *Polygonum bistorta* ssp *carnea*, sheets of *Stachys macrantha* and clumps of tall yellow *Doronicum balansae*. A quick cup of tea was followed by a stop for a good population of *Campanula collina* with a few *Asyneuma amplexicaule* thrown in and then near the village the unusual greyish *Delphinium dasystachyum* and yellow *Linaria genistifolia*. Watching the stream two Dippers were seen very well as they preened or just stood on the rocks and both Grey Wagtail and Common Sandpiper went past. We continued down for a fair way passing great stands of *Campanula lactiflora* stopping finally for yellow *Alcea hohenackeri* to round off the day's botany.

## Day 5                      Mor

All of the high yaylas vary in character and Mor is another very worthwhile destination, consisting of much drier habitat than we'd experienced yesterday. On the steppe as we climbed up were *Campanula glomerata*, the outrageous scarlet *Sedum semperivoides* alongside *Helichrysum plicatum* and pale pink *Centaurea pulcherrima* as Apollo, various blues, Balkan Marbled Whites and then three Long-legged Buzzard flew. The landscape was wonderful with big views and as we descended towards Mor Yayla village we stopped for a magnificent stand of tall yellow *Centaurea macrocephala*, which contrasted nicely with the deep blue of the *Anchusa leptophylla* by the roadside. The rest of the climb to the pass was fairly rough but we saw Ortolan Bunting, Whinchat, Shore Lark and Choughs and Samet our driver was only denied reaching the top by a poorly parked bulldozer. Nonetheless it wasn't far for us to all walk up to a spectacular view of the 'Seven lakes'. Among the rocks and stony ground were pretty blue and mauve *Nonea versicolor*, lilac *Aster alpinus* and the unusual and scarce pink *Dracocephalum aucheri*. A sharp shower of rain has us running for the bus, but poor Ruth has gone too far without her brolly and returned a touch soggy. We waited for the rain to pass as great rolls of thunder rattled about.

It did stop and lunch was prepared, eaten and then we explored the slopes finding many more superb flowers with the rare scree-loving *Viola odontocalycina* to begin with followed by the wonderful creamy flowered *Centaurea appendicigera*. Elsewhere were fine clumps of lilac *Lallemantia canescens*, orangey *Papaver fugax*, the delicate pale blue harebell *Campanula stevenii*,

fine clumps of bicoloured *Vicia canescens* and best of all a scree patch with many of the lovely pea *Vavilovia formosa*. On the drive back we stopped only for a fine stand of *Verbascum armenum*.

## Day 6                      To Barhal

The very early birders went out with a local guide to a nearby high meadow to look for Caucasian Black Grouse surprising the many Ring Ouzels and Tree Pipits along the track as we drove. It was actually very pleasant being up above the valleys in these flowery meadows so early and seeing the dawn break. It took some time to track down the birds seeing first a Chamois before flushing two males who wheeled across the slopes and away. Interestingly as we descended the gatherings of Scotch Arguses along the banks we'd seen a few days before now made sense as these banks got the first rays of sunlight and now there were the same dozens and dozens of butterflies out warming themselves in the morning sun.

There was actually a long drive today to our next hotel and we drove up and over Ovit Dag again and then descended into the warmer Coruh Valley beyond stopping for a plant of *Pelargonium endlicherianum* with showy deep pink flowers. Around and about this were masses of the pale pink *Xeranthemum annuum* and a few spiny green *Eryngium campestre*. Next were fine clumps of delicate *Dianthus orientalis* sprouting from the rocks as well as orange *Glaucium corniculatum*, Southern White Admirals, Golden Oriole and Roller. It was hot in these lower valleys and although the scenery was in places dramatic I wanted to take lunch in a much cooler shady location beside an old Georgian church surrounded by big walnut trees. There was only just time to see the church and eat lunch before a big storm swept in.

Once it has passed we carried on towards Yusefeli where there were good clumps of *Origanum rotundifolium* and both Southern Comma and Scarce Swallowtail in the valley leading to our hotel.

## Day 7                      Olgunlar

Fine start to the day and we stopped first for pink *Alcea dissecta*, stands of cichory and then the scarce *Thaleropsis ionia*, which was joined by Scarce Swallowtail, Dark Green Fritillary and Southern White Admiral. Butterflies were becoming increasingly abundant as our next stop for another fine plant of *Pelargonium endlicherianum* was beside stands of *Lythrum salicaria* and the thistles proved a magnet for White-letter Hairstreak, False Heath Fritillary and Silver-washed Fritillary. False Grayling were settling on the road and there were stands of yellow *Lysimachia vulgaris* too. As we drove up a pair of Red-fronted Serins flew out but sadly never settled in a convenient place although there was the bonus of Blue Rock Thrushes, *Isatis glauca* and delicious raspberries. A Camberwell Beauty settled on the road and there was a pair of Red-backed Shrikes hunting in a field before we reached Olgunlar and butterfly madness. Here

were clouds of blues with Idas, Turkish Furry, Common and Meleager's (at least) as well as Heath Fritillary and Yellow-banded Skipper, but that was just a sample, photos would have to gone through to determine how many species. Beside all of this was a simply incredible clump of *Gentiana septemfida* and a few *Parnassia palustris*.

We had a tasty lunch at a pension in the village and then paid a quick visit to a good clump *Swertia iberica* before the now customary afternoon rain arrived. The rain passed and we drove down to the nearby village of Yaylalar where we had a short walk to find *Melampyrum arvense*, *Polygala anatolica*, *Centaurea pulcherimma* and the rare pink knapweed *Uechtrizia armena*. Mistle Thrush rattled from the trees as we returned with the threat of more rain in the air.

Unfortunately the rain did return and it rather dampened the butterflies and curtailed the day with just a stop for a big population of *Alcea dissecta* and Dippers.

## Day 8                      Karagöl

Today had to be hastily rearranged as our attempt to drive up to Pisenkaya was thwarted by roadworks. Instead we took the road to Karagol and stopped first for Silver-washed Fritillaries on a stand of *Cephalaria gigantea* beside a still working little water-powered flour mill. Not much further up was one of the flowers of the trip with some north facing rocks harbouring fine clumps of *Campanula choruhensis* as well as *Sempervivum minus* and various sedums. Three of the group came with me and climbed up a lot higher following the switchback road at first with incredible oceans of *Alchemilla mollis* from among which sprouted many *Gentiana septemfida* and then big stands of *Delphinium formosum* and Red-backed Shrikes. There had clearly been a good number of lilies a couple of weeks ago, but these were in seed now. A couple of flowering plants of *Gentiana aesclepiadea* were seen before the route headed steeply uphill for a bit and out attempts at a short cut sort of worked cutting through a patch of spruce forest with *Pyrola rotundifolia* and eventually after a rocky bit reaching an area of turf between the many streams. There were stands of *Aquilegia olympica* and on the higher screes many orange *Papaver lateritium*. Rumbles up ahead and a greying sky signalled it was time to retreat and we did so descending a different quicker way as the clouds gathered, arriving back at the bus in the nick of time and just as the rest of the group reconvened too. The view back up the valley was dramatic and within minutes the mountains had disappeared. Başak had stayed with the rest of the group but unfortunately the road works had prevented them going very far although they did find many butterflies and the pretty pink *Epilobium dodonaei*.

A Persian Squirrel scurried across the road as we returned and there was still time to visit the local church, a virtual replica of the rundown one we'd seen a few days ago but this was in better nick although now converted into a mosque.

## Day 9

## To Laşet

There had been heavy rain overnight but this didn't stop the local Wren from singing continuously! We drove towards Yusefeli stopping for a while along a side road with big stands of *Lythrum salicaria* and *Eupatorium cannabinum* which are usually thronging with butterflies, but not today on such a cool morning. There was *Scutellaria albida*, *Cynanchum acutum* and *Clematis vitalba*, before finally a butterfly appeared, a Long-tailed Blue. A couple of Jersey Tigers were also seen and a male Golden Oriole sang and showed himself. The winding road passed some fine groups of steely-blue *Echinops orientalis* and we stopped by one also seeing a Turkish Fiery Copper. We skirted the towering dam and made it up to a small Georgian church where we had lunch.

The remaining drive onto the charming green countryside around Laşet was past fields with much *Inula helenium* with Green Woodpeckers calling and a wonderful late summer feel to the landscape.

## Day 10

## Cam Pass

The abundant meadows that surround Laşet and cloth much of the north-east are alive with invertebrates and this morning when we stopped not far from the hotel the grassland was full of bush-crickets, burnet moths and Marbled Whites all feeding or sheltering among *Gentiana cruciata*, *Centaurea salicifolia*, slender *Linum tenuifolium* and the massed ranks of tall *Inula helenium* upon which Great Green Bush-Crickets sought a vantage point. We climbed up onto the higher slopes to just beyond the spruce forest and stopped at a viewpoint looking out across the forests and mixed farms below. There were many soft-blue *Scabiosa caucasica* and just below us a superb meadow with abundant *Astrantia maxima*, *Geranium psilostemon* and the peculiar feathery-bracted *Cirsium obvallata*. Greenish Warbler called from the trees and other slopes were swathed in flowers with masses of *Campanula lactiflora* and *Inula speciosa* as Steppe Buzzards flew overhead.

Up onto pass and we quickly picked up Lesser Spotted Eagle, Long-legged Buzzards and then a Short-toed Eagle in a short space of time. On a rocky outcrop were some excellent *Campanula crispera* (the best I'd seen) and in the drier grassland was delicate little *Allium olympicum*, tall *Delphinium flexuosum* and creamy *Gentian gelida* growing next to *Gentiana septemfida* with what could only be their hybrid offspring in between, a rather insipid pale blue gentian. After lunch we looked around the tall herbs flanking a near dry stream with big stands of grey-leaved white *Tanacetum balsamita*, *Swertia iberica* and a pair of monkshoods with blue *Aconitum nasutum* and yellow *anthora*. A pale phase Booted Eagle soared over us before we left. There was time to stop for a few *Aconitum orientale* flowering below a steep roadside bank and then we carried on down to an area of spruce forest.

Here hidden in the darkest hollows was a good colony of the mysterious Ghost Orchid *Epipogium aphylla* growing in the deep litter with a few *Monotropa hypopitys*. Thunder was again groaning overhead and we had time to get our pictures and made for the bus before the rain arrived.

## Day 11                      Çildir & Aktaş

A fine start to the day, but I couldn't help thinking I'd forgotten something and I had - the other car! With this slight delay while Başak dashed back we saw Great Spotted Woodpecker, *Lathyrus tuberosus*, Dingy Skipper and Dark Green Fritillary so it wasn't so bad after all. Once again heading up to the pass we saw an adult Lammergeier. On the other side of the pass the landscape quickly changes from lush forests akin to the alps to rolling grassland akin to Central Asia. Before the town of Ardahan we stopped beside the road for stands of yellow *Centaurea glastifolia*, the big thistle *Onopordum acanthium* as well as both White Stork and Black Storks. A Lesser Spotted Eagle was sat near road not much further on, indifferent to our interest. Beyond the rather grotty town is a small wetland and here we saw *Cirsium ciliatum* ssp *szovitsii*, Marsh Harrier, Coot, Little Grebe and dapper Lesser Grey Shrikes. Cuckoos were seen as we progressed across the rolling countryside which opened out into plunging gorges every so often and then the blue waters of Çildir Lake. There were hundreds of Sand Martins settled on the road when we arrived, speeding off in whirling flocks as we approached. It was windy but the marshes were still very good with an excellent scope view of Temminck's Stint, along with Green and Wood Sandpipers, Ruff, a Marsh Harrier with prey (possibly a duck). Somehow a Small Tortoiseshell was braving the wind.

After lunch we drove onto Aktaş Lake which is of quite different character. The first view of it was from a hilltop with a commanding outlook towards Georgia and a deep gorge to the left. The lake is actually bisected by the Turkish Georgian border and there are large breeding colonies of pelicans and cormorants in the middle. By the lakeshore we had close views of Dalmatian Pelicans (and distant White Pelicans) in the water and the guano encrusted islands in the lake and there were Ruddy Shelduck and Little Egret. A second area produced at least three Montagu's Harrier, Snipe and the charming apricot coloured *Rhynchocorys elephas*. This was offset rather well by dark blue *Eryngium billardierii*. Leaving the lake we climb back up to the hilltop and stopped for a photo with drifts of *Scabiosa caucasica* in front and then paused again for a picture of the dramatically positioned Wolf Castle. The final piece of action though was just after Ardahan where a juvenile Imperial Eagle was perched on a pylon in clear view.

## Day 12

## Yalnızcam & Karagöl

Birdlife around the bungalows included a couple of Greenish Warblers, Rock Buntings and Coal Tits. We tried a different road that branched off of the pass today, not sure of its final destination. There was not so much to see but nonetheless we did find a couple of *Gentiana verna* in flower, reddish *Nonea pulla* ssp *monticola*, Lammergeier and an excellent close flyby of a Booted Eagle. Just beyond the pass was a fenced off area with recently planted trees and this semi-protected area thronged with hundreds of *Scabiosa caucasica* with some big clumps popular with Caucasian Spotted Fritillary. Elsewhere there were many yellow *Aconitum anthora*, bright yellow *Hypericum linarioides*, various species of burnet moths, some handsome crickets and a dead mole.

We descended back towards the bungalows we were staying in and then beyond via small unmade tracks to the peaceful Karagöl Lake with dragonflies, damselflies, Marsh Frogs and on a slope behind superb *Gentiana aesclepiadea* and *Astrantia maxima*. Walking around there was plentiful *Melampyrum arvense* a patch of *Saxifraga cymbalaria* and *Salvia glutinosa*. As seemed to be the way this year the rain arrived just after lunch. It stayed with us a while although we still managed to see Rock Buntings and photograph *Origanum rotundifolium* on the way back.

## Day 13

## To Kars & Ani

We climbed over the pass for the last time and turned east seeing Roller very well in the telescope just beyond Ardahan. An insignificant rocky meadow some way after was actually very good with hundreds of *Gentiana gelida*, golden *Inula salicaria*, Crested Larks and a distant Golden Eagle. Further on were Black Kites. We continued on to Kars for lunch and then the afternoon was spent at the splendid ruins at Ani on the border with Armenia. Here among the red stone churches and ruined caravanserais were many clumps of *Peganum harmala* and *Lepidium vescicarium* with distinctive inflated stem nodes. Birding was good with Pied, Isabelline and Finsch's Wheatears, Rock Nuthatch and Rock Sparrow.

## Day 14

## Koyucuk Lake & journey home

There was time for a quick birding session before we left and it was a productive one that began with a fantastic little flock of Rose-coloured Starlings that were sunning themselves on roadside spoil heaps. At Koyucuk Lake there were thousands of birds with countless Coots, many Black-winged Stilts, as well as Green, Common, Wood and Marsh Sandpipers and Ruff. Both White-winged Black and Whiskered Terns were very active and three Dalmatian Pelicans soared over the lake and then landed. An Egyptian Vulture as we drove back completed the morning. There was time for a brief rest after lunch before our afternoon flight to Istanbul and onto the UK or for some of us a longer stay in Turkey.

## Itinerary Summary

- Day 1 Trabzon to Genesis/Güneyce, Çamlık & Sivrikaya
- Day 2 Ovit Dağ
- Day 3 Anzer Yayla
- Day 4 Mor Yaylası
- Day 5 Ovit Dağı & Dört Klise/Barhal
- Day 6 Pişenkaya
- Day 7 Taşkırın & Yaylalar
- Day 8 Olgunlar & Dibe Yaylalar & Yaylalar
- Day 9 Demirgören Valley & Yaylalar
- Day 10 Yusufeli / Laşet
- Day 11 Cam Pass & Sahara National Park
- Day 12 Çıldır Gölü & Aktaş Gölü
- Day 13 To Kars via Ardahan

## Systematic List Number 1 Flowers

### ***Equisetaceae***

<i>Equisetum arvense</i>	Scattered, Cam Pass, Pişenkaya ?
<i>Equisetum fluviatile</i>	Marshy areas on Cam Pass, Çıldır Gölü ?
<i>Equisetum palustre</i>	Marshy areas on Cam Pass
<i>Equisetum telmateia</i>	Sivrikaya

### ***Lycopsidaceae***

<i>Lycopodium clavatum</i>	Ortan where common on mossy banks
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### ***Pteridophyta***

<i>Adiantum capillus-veneris</i>	Çoruh Valley, Çamlık
<i>Asplenium scolopendrium</i>	Sivrikaya, Barhal
<i>Asplenium septentrionale</i>	Demirgören Valley, Karagol
<i>Asplenium adiantum-nigrum</i>	Demirgören Valley
<i>Asplenium trichomanes</i>	Sivrikaya
<i>Athyrium distentifolium</i>	Sivrikaya
<i>Athyrium filix-foemina</i>	Cam pass woods
<i>Cystopteris fragilis</i>	Ovit Dağı, Karagol
<i>Dryopteris abbreviata</i>	Widespread e.g. Çamlık, Sivrikaya
<i>Dryopteris limbosperma</i>	Anzer Yayla, Mor Yayla
<i>Gymnocarpium robertianum</i>	Taşkıran
<i>Matteucia struthiopteris</i>	Locally common e.g. Ovit Dağı, Olgunlar
<i>Phegopteris connectilis</i>	Pişenkaya
<i>Polypodium vulgare</i> agg	Sivrikaya, etc
<i>Polystichum aculeatum</i>	Sivrikaya, Ovit Dağı
<i>Polystichum lonchitis</i>	Ovit Dağı, Mor Yayla
<i>Pteridium aquilinum</i>	Widespread e.g. Sivrikaya, Ovit Dağı
<i>Pteris cretica</i>	Sivrikaya
<i>Telypteris phegopteris</i>	Karagol

### ***Cupressaceae***

<i>Juniperus communis</i>	Widespread e.g. Anzer Yayla, Ovit Dağ
<i>Juniperus oxycedrus</i>	Olgunlar, Ovit Dağı, etc
<i>Juniperus sabina</i>	Yaylalar

### ***Pinaceae***

<i>Abies nordmanniana</i>	Locally dominant e.g. Cam pass, Yaylalar
<i>Picea orientalis</i>	Very common and widespread, the dominant coniferous species e.g. Cam pass, Yaylalar
<i>Pinus sylvestris</i>	Locally common e.g. Pişenkaya, Yaylalar, Çam pass

## ***Aceraceae***

*Acer campestre*  
*Acer platanoides*  
*Acer pseudoplatanoides*

Taşkıran  
Çamlık, Ovit Dağ, Demirgören Valley  
Pişenkaya

## ***Anacardiaceae***

*Rhus coriaria*  
*Cotinus coggygria*

Widespread, long, wide pinnate leaved shrub/tree  
Smoke bush, Barhal area  
Many more species of this difficult family were seen but not identified

## ***Apiaceae***

*Astrantia maxima*

Scattered, lovely pink form, widespread e.g. Anzer Yayla, Pişenkaya etc.  
Olgunlar-Dibe Yayla

*Bupleurum falcatum*

*Bunium microcarpum* ssp. *bourgai*

Ovit Dagi

*Carum meifolium*

Ovit Dağı

*Chaerophyllum astrantiae*

Olgunlar

*Chaerophyllum macrospermum*

Olgunlar

*Conium maculatum*

Çıldır Gölü

*Daucus carota*

Scattered, Ovit Dağı

*Eryngium billardieri*

Aktas Lake

*Eryngium campestre*

En route to Yaylalar, Anzer Yayla.

*Eryngium giganteum*

Superb big silvery species mainly around Ovit Dağ, but scattered elsewhere too

*Falcaria vulgaris*

Demirgören Valley, Çıldır Gölü ?

*Heracleum platytaenium*

Widespread e.g. Ovit Dağı, Anzer Yayla

*Pimpinella saxifrage*

Çıldır Gölü ?

*Pimpinella rhodantha*

Sivrikaya, Ovit Dağı

*Prangos ferulago*

Dibe Yayla ?

*Sanicula europaea*

Çam Pass

*Xanthogalum purpurascens*

Mor Yayla

## ***Asclepiadaceae***

*Cynanchum acutum*

Cam Pass

*Cynanchum fuscatum*

Anzer Yayla

## ***Asteraceae***

*Achillea latiloba*

Sivrikaya

*Achillea millefolium*

Mor Yayla, Ovit Dağ

*Actium platylepis*

Sivrikaya, Anzer Yayla

*Actium minus*

Laset

*Antennaria dioica*

Ovit Dağ ?

<i>Anthemis marscheilliana ssp pectinata</i>	Locally very common on higher meadows and alpine turf, golden-yellow daisy, fine-cut soft grey leaves e.g Ovit Dağ, Mor Yayla, Pişenkaya
<i>Anthemis melanoloma ssp melanoloma</i>	Creamy flowers with drooping ligules, unbranched seen at Sivrikaya pastures
<i>Anthemis tinctoria</i>	Mor Yayla
<i>Arctium minus</i>	Burdock, scattered e.g Ovit Dağ
<i>Artemisia absinthium</i>	Cam Pass
<i>Artemisia vulgaris</i>	Mor Yayla
<i>Aster alpinus</i>	A few at Mor Yayla
<i>Aster amellus</i>	Taller than <i>alpinus</i> with branched inflorescence, Mor Yayla, Ovit Dağ, etc
<i>Aster caucasicus</i>	
<i>Carduus hamulosus</i>	Çıldır Gölü ?
<i>Carduus lanuginosus</i>	Mor Yayla
<i>Carduus nutans</i>	En route to Çıldır Gölü ?
<i>Carlina biebersteinii</i>	Mor Yayla, Dibe Yayla , Laset
<i>Carlina vulgaris</i>	Mor Yayla
<i>Centaurea appendicigera</i>	Gorgeous creamy flowered cornflower, widespread on gravelly slopes or rocks in mountains e.g Ovit Dağ, Anzer Yayla, Mor Yayla etc.
<i>Centaures dealbata</i>	Laset
<i>Centaurea glastifolia</i>	Bright yellow with slender winged stems. Widespread, Mor Yayla, Ardahan (common)
<i>Centaurea helenioides</i>	Large yellow flowers with woolly phyllaries, en route to Anzer Yayla, Sivrikaya
<i>Centaurea hypoleuca</i>	Anzer Yayla
<i>Centaurea macrocephala</i>	Another large yellow species with brownish phyllaries. Mor Yayla
<i>Centaurea nigrifimbriata</i>	Blue alpine cornflower, black-edged phyllaries, Widespread e.g Sivrikaya, Ovit Dağ, Pişenkaya etc.
<i>Centaurea pseudoscabiosa</i>	Taşkıran ?
<i>Centaurea pulcherrima</i>	Widespread in alpine meadows, pink with papery pale brown phyllaries, Pişenkaya, Taskiran, etc
<i>Centaurea rhizantha</i>	Anzer Yayla
<i>Centaurea salicifolia</i>	Laset
<i>Centaurea triumfettii</i>	Mor Yayla
<i>Cicerbita bourgaei</i>	
<i>Cicerbita racemosa</i>	Shorter species lilac-blue, scattered e.g. Anzer Yayla, Mor Yayla, Sivrikaya
<i>Cichorium intybus</i>	Abundant along roadside, chicory, Mor Yayla
<i>Cirsium adjaricum</i>	Yaylalar
<i>Cirsium echinus</i>	Widespread e.g. Mor Yayla, Anzer, spiny thistle with creamy nodding flowers on roadsides
<i>Cirsium hypoleucum</i>	Common deep pink thistle of woodland edge, nodding flowers e.g Anzer Yayla
<i>Cirsium obvallatum</i>	Cam Pass
<i>Cirsium pseudopersonata</i>	Sivrikaya, Ovit Dağ
<i>Cirsium pubigerum ssp glomeratum</i>	Barhal area, pale pink flowered, tall

<i>Cirsium rhizocephalum</i>	
<i>Conyza canadensis</i>	En route to Laşet,Sivrikaya ?
<i>Doronicum balansae</i>	Anzer and Mor Yayla
<i>Echinops orientale</i>	Fine stands near Barhal, round thistle heads with blue flowers,Mor Yayla,Ovit Dağ
<i>Erigeron acer</i>	Widespread, pale pink species e.g Çam pass
<i>Erigeron annuus</i>	Sivrikaya ?
<i>Erigeron caucasicus</i>	Tall deep pink species, Ovit Dağ
<i>Eupatorium cannabinum</i>	Hemp Agrimony, tall with broad white corymbs, Barhal area , Ovit Dağ, Pişenkaya etc.
<i>Gnaphalium supinum</i>	Widespread e.g Ovit Dağ
<i>Helichrysum armenium</i>	Similar to plicatum but leaves are revolute
<i>Helichrysum plicatum</i>	Common pale yellow with deeper centre e.g Ovit Dağ
<i>Inula helenium</i>	Widespread e.g Taşkıran,Sivrikaya, typical tall <i>Inula</i> , <i>Barhal</i> , <i>Lasat</i> Çam Pass
<i>Inula oculus-christi</i>	
<i>Inula maeri</i>	Barhal
<i>Inula orientalis</i>	Lovely orangey-yellow species in tidy clumps, Sivrikaya,Ovit Dağ etc.
<i>Jurinella moschus</i>	Anzer and Mor Yayla
<i>Mycelis muralis</i>	Çıldır Gölü
<i>Onopordum acanthium</i>	Cam Pass
<i>Petasites albus</i>	Widespread e.g Ovit Dağ, some huge leaves on show
<i>Pilosella hoppeana</i>	Widespread e.g Anzer Yayla,Mor Yayla, pale yellow daisy with ovate hairy leaves
<i>Prenanthes cacalifolia</i>	
<i>Prenanthes purpurea</i>	Barhal area ?
<i>Reichardia glauca</i>	Scattered throughout
<i>Scariola viminea</i>	Yaylalar
<i>Scorzonera cana</i>	Ovit Dağ
<i>Scorzonera tomentosa</i>	Yaylalar
<i>Senecio pseudo-orientalis</i>	Anzer Yayla,Mor Yayla
<i>Senecio platyphyllus</i>	Anzer Yayla
<i>Senecio racemosus</i>	
<i>Senecio taraxacifolius</i>	Ovit Dagi
<i>Senecio vernalis</i>	Anzer and Mor Yayla
<i>Solidago virgaurea</i>	Anzer Yayla, above Sivrikaya
<i>Tanacetum balsamita</i>	Fine white flowered species on Cam Pass
<i>Tanacetum macrophyllum</i>	Ovit Dağ
<i>Tanacetum parthaneum</i>	Sivrikaya
<i>Telekia speciosa</i>	Another tall handsome daisy, broad yellow flowers and large, broad leaves, widespread e.g Ovit Dağ,Anzer Yayla etc.
<i>Tripleurospermum melanolepis</i>	Anzer and Mor Yayla
<i>Tripleurospermum oreades var.</i>	Mor Yayla
<i>tchihatchewii</i>	
<i>Tussilago farfara</i>	Sivrikaya,Ovit Dağ not in flower

<i>Uechtritzia armena</i>	Yaylalar
<i>Xeranthemum annuum</i>	Abundant in drier valleys, tall pink daisy with pointed petals, widespread e.g Mor Yayla, Pişenkaya
<b><i>Balsaminaceae</i></b>	
<i>Impatiens noli-tangere</i>	Widespread in wet areas, a balsam e.g Anzer Yayla
<b><i>Berberidaceae</i></b>	
<i>Berberis crataegina</i>	Anzer Yayla, Barhal area
<b><i>Betulaceae</i></b>	
<i>Alnus glutinosa glutinosa</i>	Widespread e.g Ovit Dağ, Anzer Yayla, Mor Yayla etc.
<b><i>Boraginaceae</i></b>	
<i>Anchusa azurea</i>	Tall blue 'borage', Sivrikaya, etc
<i>Anchusa leptophylla</i>	More slender with deeper blue flowers, Mor Yayla
<i>Arnebia pulchra</i>	Anzer Yayla, Çam Pass
<i>Cerinthe glabra</i>	
<i>Cerinthe minor</i>	Pişenkaya, Laset
<i>Cynoglossum montanum</i>	Reddish flowers, spiny disc-like fruits, widespread e.g Demirgöre Valley En route to Yusufeli from Yaylalar ?
<i>Echium italicum</i>	En route to Çıldır Gölü
<i>Echium russicum</i>	
<i>Echium vulgare</i>	Widespread e.g Sivrikaya, Anzer Yayla etc.
<i>Lappula barbata</i>	Demirgören Valley
<i>Nonea pulla ssp. monticola</i>	Cam Pass
<i>Nonea versicolor</i>	Mor yayla
<i>Myosotis alpestris</i>	Widespread in mountains e.g Ovit Dağ, Yaylalar
<i>Nonea pulmonaroides</i>	Çam Pass
<i>Onosma aucherianum</i>	Mor Yayla
<i>Onosma isauricum</i>	
<i>Onosma tauricum</i>	Yaylalar
<i>Symphytum asperum</i>	Widespread, blue flowers Ovit Dağ, Pişenkaya etc.
<b><i>Brassicaceae</i></b>	
<i>Arabis draboides</i>	
<i>Arabis caucasica</i>	Mor yayla
<i>Berteroa mutabilis</i>	Yaylalar area
<i>Bunias orientalis</i>	Sivrikaya ?
<i>Capsella bursa-pastoris</i>	scattered
<i>Cardamine raphanifolia ssp. acris</i>	Wet areas, scattered; Ovit Dağ, Anzer Yayla
<i>Cochlearia sintenisii</i>	
<i>Coluteocarpus vesicaria</i>	Anzer area. Yaylalar
<i>Dentaria bulbifera</i>	

<i>Draba brunnifolia</i>	Ovit Dağ, Anzer Yayla
<i>Draba hispida</i>	Ovit Dağ, Anzer Yayla
<i>Erysimum alpinum</i>	Mor Yayla
<i>Fibigia macrocarpa</i>	Yaylalar ( Fruits )
<i>Hesperis matronalis</i>	Cam Pass
<i>Isatis glauca</i>	Scattered. Woad. Mor Yayla.
<i>Thlaspi arvense</i>	Sivrikaya, Anzer Yayla

### ***Buxaceae***

*Buxus sempervirens*

### ***Camelliaceae***

*Thea sinensis*

Widespread in plantations – Tea e.g Güneyce

### ***Campanulaceae***

*Asyneuma amplexicaule*

Slender purplish-blue spikes in meadows, clasping leaves, Anzer Yayla, Mor Yayla

*Campanula alliarifolia*

Tall white species. Widespread, e.g. Ovit Dag, Çam Pass etc.

*Campanula aucheri*

Large blue bell in alpine turf, pale centres, corolla pubescent outside e.g. Mor Yayla, Ovit Dağ

*Campanula betulifolia*

En route to Anzer Yayla ?

*Campanula choruhensis*

A few plants in flower on rocks at Taskiran

*Campanula collina*

Locally common on higher passes e.g. Anzer Yayla. Spikes of well spaced purplish bells

*Campanula crispa*

White flowered cliff dweller on Cam Pass

*Campanula glomerata*

Widespread, dense pale blue – dark blue flowers, stiff bracts and leaves. Mor Yayla, Pişenkaya.

*Campanula lactiflora*

Locally abundant e.g. Ovit Dag, Anzer, tall with huge heads of pale lilac to mid-blue flowers

*Campanula latifolia*

Scattered, tall with large hairy bells. Anzer Yayla, Mor Yayla etc.

*Campanula persicifolia*

Ayder

*Campanula rapunculoides*

Locally abundant along roads, tall, slender with lilac top purple bells in spikes. En route to Çamlık and Pişenkaya.

*Campanula sibirica*

Rather wiry, species with sparse spikes, flowers generally held upright. Ovit Dağ, Sivrikaya.

*Campanula stevenii*

Delicate pale blue species on long wiry stems e.g. Ovit Dağ, Mor Yayla

*Campanula tridentata*

Similar to *aucheri* but more purple and preferring rocks to turf, dark centres. Widespread in mountains e.g. Ovit Dağ, Mor Yayla

*Jasione supina*

Dwarf with round blue 'globularia-like' flowers, Ovit Dağ, etc

### ***Cannabaceae***

*Cannabis sativa*

Yaylalar

*Humulus lupulus*

Yaylalar

## ***Capparaceae***

*Capparis ovata*

En route to Yusufeli

*Cleome steveniana*

## ***Caprifoliaceae***

*Lonicera caucasica*

*Lonicera xylostemum*

Anzer area

*Sambucus edulis*

Widespread and common e.g Anzer Yayla, Mor Yayla etc.

*Sambucus nigra*

*Viburnum lantana*

Scattered e.g. Demirgören Valley, Yaylalar

*Viburnum opulus*

Scattered e.g. En route to Çamlık

## ***Caryophyllaceae***

*Cerastium armeniacum*

Olgunlar

*Cerastium cerastioides*

Yusufeli

*Cerastium dahuricum*

Anzer Yayla

*Cerastium gnaphaloides*

*Cerastium purpurascens*

Çam Pass

*Dianthus calocephalus*

Mor Yayla

*Dianthus carmelitarum*

Sivrikaya, Ovit Dağ

*Dianthus erythrocoleus*

Mor Yayla, Yaylalar

*Dianthus micranthus*

White flowered species on Cam Pass

*Dianthus multicaulis*

Pale pink species at Mor Yayla

*Dianthus orientalis*

Widespread e.g en route to Laşet from Yusufeli, fimbriate petals, long wiry stems, on cliffs

*Gypsophila elegans*

Sivrikaya

*Gypsophila glandulosa*

Ovit Dağ

*Gypsophila silenoides*

*Herniaria glabra*

Anzer Yayla, Mor Yayla

*Minuartia circassica*

Scattered, similar to *juniperina*, but distinct greyish leaves and broader petals. Ovit Dağ, Anzer Yayla, Pişenkaya etc.

*Minuartia imbricata*

Ovit dagi

*Minuartia juniperina*

Fine-leaved tallish species on alpine tundra at Anzer Yayla, Mor Yayla etc.

*Minuartia recurva*

Anzer Yayla

*Sagina procumbens*

*Silene alba* ssp. *divaricata*

Mor Yayla

*Silene armeria*

En route to Karagol

*Silene compacta*

Widespread e.g En route to Çamlık, Ovit Dağ etc.

*Silene cappadocica*

Çam Pass

*Silene caryophylloides*

En route to Ovit Dağ

*Silene lazica*

Anzer Yayla

*Silene lucida*

Mor Yayla, deep red calyx, linear leaves less than 1.5 mm

<i>Silene multifida</i>	En route to Sivrikaya
<i>Silene otites</i>	Mor Yayla
<i>Silene pungens</i>	Mor Yayla
<i>Silene saxatilis</i>	
<i>Silene vulgaris</i>	Mor Yayla
<i>Stellaria graminea</i>	
<i>Stellaria kotschyana</i>	Ovit Dağ
<i>Stellaria media</i>	Scattered e.g. Ovit Dağ

### ***Celastraceae***

*Euonymus latifolius*

### ***Ceratophyllaceae***

*Myriophyllum spicatum*

### ***Chenopodiaceae***

*Chenopodium album*

*Chenopodium foliosum*

Mor Yayla, Çıldır Gölü

### ***Cistaceae***

*Helianthemum nummularium*

Widespread rockrose e.g. Anzer area

### ***Convolvulaceae***

*Convolvulus arvensis*

*Calystegia sepium*

*Calystegia silvatica*

Widespread e.g. Mor Yayla

Anzer Yayla

### ***Cornaceae***

*Cornus sanguinea*

Widespread e.g. Taşkiran

### ***Corylaceae***

*Carpinus orientalis*

*Ostrya carpinifolia*

*Corylus avellana*

*Corylus maxima*

Common on northern slopes e.g. Pişenkaya

Widespread e.g. Pişenkaya, Taşkiran

Ovit Dağ

### ***Crassulaceae***

*Sedum album*

*Sedum hispanicum*

*Sedum maximum*

*Sedum pilosum*

*Sedum semperivoides*

Dibe Yayla

Mor Yayla

Pişenkaya, Olgunlar

En route to Sivrikaya

Stunning scarlet species at Mor Yayla

<i>Sedum spurium</i>	Widespread and very common pink species e.g. Ovit Dağ, Anzer yayla etc. White forms on Cam Pass
<i>Sedum stoloniferum</i>	More delicate than <i>spurium</i> , scattered e.g. Anzer area Ovit Dağ
<i>Sedum tenellum</i>	
<i>Sempervivum armenum</i>	
<i>Sempervivum minus</i>	Ovit Dağ

### ***Dipsacaceae***

<i>Cephalaria gigantea</i>	Abundant at Sivrikaya and Laset area
<i>Knautia involucrata</i>	En route to Anzer
<i>Scabiosa caucasica</i>	Locally abundant on higher turf, large mid-blue flowers e.g. Sivrikaya, Ovit Dağ, Çam Pass etc.
<i>Scabiosa columbaria</i> ssp. <i>columbaria</i>	Yaylalar
<i>Scabiosa rotata</i>	Sivrikaya

### ***Elaeagnaceae***

<i>Hippophae rhamnoides</i>	
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### ***Ericaceae***

<i>Rhododendron caucasicum</i>	Higher slopes where often the dominant shrub. Ovit dağ, Anzer Yayla etc. (Leaves)
<i>Rhododendron luteum</i>	Widespread e.g. Anzer Yayla (Leaves)
<i>Rhododendron ponticum</i>	Widespread e.g. Ovit Dağ (Leaves)
<i>Vaccinium arctostaphylos</i>	
<i>Vaccinium myrtillus</i>	Widespread, delicious berries e.g. Ovit Dağ
<i>Vaccinium uliginosum</i>	Widespread e.g. Anzer Yayla, Pişenkaya

### ***Euphorbiaceae***

<i>Euphorbia macroceras</i>	Sorry but this family was totally ignored! Several species of <i>Euphorbia</i> were evident but all were well past their flowering peak. Sivrikaya
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### ***Fabaceae***

<i>Albizia julibrissin</i>	
<i>Argyrolobium bieberstenii</i>	Yaylalar
<i>Coronilla orientalis</i>	Scattered, planted in towns Ovit Dağ, Anzer Yayla
<i>Coronilla varia</i>	Anzer Yayla, Sivrikaya
<i>Hedysarum hedysaroides</i>	Ovit Dağ, slender pink sainfoin
<i>Lathyrus pratensis</i>	Widespread e.g. Anzer area
<i>Lathyrus rotundifolius</i>	Widespread e.g. Anzer Yayla, Mor Yayla
<i>Lathyrus tuberosus</i>	Near Ardahan, Laset
<i>Lotus corniculatus</i>	Widespread e.g. Ovit Dağ, Mor Yayla

<i>Medicago alba</i>	
<i>Melilotus officinalis</i>	Widespread e.g. Ovit Dağ
<i>Onobrychis transcaucasica</i>	Ovit Dağ
<i>Onobrychis montanum</i>	Anzer yayla
<i>Robinia pseudacacia</i>	Widespread, planted e.g. Taşkiran
<i>Trifolium alpestre</i>	Çam Pass
<i>Trifolium arvense</i>	Widespread e.g. Ovit Dağ, oblong woolly heads, like a hare's foot
<i>Trifolium campestre</i>	
<i>Trifolium fragiferum</i>	En route to Çıldır Gölü ?
<i>Trifolium medium</i>	Yaylalar
<i>Trifolium pannonicum</i>	Widespread and common large creamy-white clover e.g. Anzer Yayla, Mor Yayla
<i>Trifolium pratense</i>	
<i>Trifolium repens</i>	Widespread e.g. Ovit Dağ
<i>Trifolium rytidosemium</i>	White forms at Ovit Mount.
<i>Trifolium spadiceum</i>	Sivrikaya, Ovit Dağ, Anzer area
<i>Vavilovia formosa</i>	Mor Yayla
<i>Vicia alpestris</i>	
<i>Vicia canescens</i>	Anzer Yayla, Mor Yayla
<i>Vicia cracca</i>	Mor Yayla, Anzer, etc
<i>Vicia truncatula</i>	Ovit Dağ

### ***Fagaceae***

<i>Castanea sativa</i>	Widespread e.g. Güneyce ?
<i>Fagus orientalis</i>	Common in forest on northern slopes
<i>Quercus macranthera</i>	En route to Laşet ?
<i>Quercus petraea</i>	Güneyce, etc

### ***Fumariaceae***

<i>Fumaria procumbens</i>	Anzer Yayla
<i>Corydalis alpestris</i>	Anzer Yayla.
<i>Corydalis conrhiza</i>	Anzer Yayla. Handsome lilac-blue species in scree
<i>Corydalis rutifolia</i>	

### ***Gentianaceae***

<i>Blackstonia perfoliata</i>	Cam Pass
<i>Gentiana asclepiadea</i>	Widespread, fine flowering plants at Karagol
<i>Gentiana cruciata</i>	Çam Pass
<i>Gentiana gelida</i>	Handsome creamy-white species, Ardahan-Kars area Ovit Dağ
<i>Gentiana nivalis</i>	
<i>Gentiana olivierii</i>	
<i>Gentiana pyrenaica</i>	Widespread small purple species e.g. Ovit Dağ, Anzer Yayla etc.

<i>Gentiana septemfida</i>	Widespread and common in higher areas e.g. Ovit Dağ, Pişenkaya, Çam Pass etc. large trumpets on long, leafy stems
<i>Gentiana verna</i>	Scattered e.g. Anzer area, deep blue
<i>Gentianella caucasica</i>	Soft-pink gentian, Çam Pass
<i>G.gelida x G.septemfida</i>	Çam Pass
<i>Swertia iberica</i>	Widespread e.g. Ovit Dağ, Cam Pass, Taskiran etc.

### ***Geraniaceae***

<i>Geranium asphodeloides</i>	Mor Yayla, also pink form near Ardahan
<i>Geranium cinereum</i>	Both the dark eyed and white centred forms were seen. Widespread and locally common e.g. Ovit Dağ, Mor Yayla
<i>Geranium collinum</i>	Cildir Lake
<i>Geranium ibericum</i>	Widespread and common at higher levels especially e.g. Anzer Yayla, Mor Yayla
<i>Geranium psilostemon</i>	Widespread e.g. en route to Ovit Dağ, Anzer Area, tall, deep magenta with black-eye
<i>Geranium pyrenaicum</i>	Scattered e.g. Sivrikaya
<i>Geranium robertianum</i>	Widespread e.g. Sivrikaya
<i>Geranium sanguineum</i>	En route to Barhal ?
<i>Pelargonium endlicherianum</i>	En route to Barhal

### ***Grossulariaceae***

<i>Ribes alpinum</i>	Demirgören Valley
<i>Ribes orientalis</i>	Above Barhal

### ***Hippuridaceae***

<i>Hippuris vulgaris</i>	Çıldır Gölü
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### ***Hypericaceae***

<i>Hypericum androsaemum</i>	
<i>Hypericum armenum</i>	Anzer Yayla
<i>Hypericum hyssopifolium</i>	Sivrikaya
<i>Hypericum lydiium</i>	
<i>Hypericum orientale</i>	Ovit Dağ
<i>Hypericum linaroidies</i>	Cam Pass
<i>Hypericum scabrum</i>	Corymbs of golden flowers, Mor Yayla
<i>Hypericum perforatum</i>	Widespread in meadows e.g. Sivrikaya

### ***Juglandaceae***

<i>Juglans regia</i>	Widespread orchard tree
<i>Pterocarya fraxinifolia</i>	

### ***Lamiaceae***

<i>Ajuga orientalis</i>	Widespread e.g Ovit Dağ
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<i>Ballota rotundifolia</i>	Yaylalar
<i>Calamintha grandiflora</i>	Woodland edge, large, long tubed pink flowers, scented leaves, e.g. Anzer
<i>Clinopodium vulgare</i>	Ovit Dağ ?
<i>Dracocephalum aucheri</i>	Mor Yayla
<i>Galiopsis ladenum</i>	Mor Yayla
<i>Hyssopus officinalis</i>	
<i>Lallemantia canescens</i>	Mor Yayla
<i>Lamium album</i>	Widespread e.g. Anzer Yayla, Pişenkaya
<i>Leonorus glaucescens</i>	Çıldır Gölü ?
<i>Lycopus europaeus</i>	Taşkıran
<i>Mentha longifolia</i>	Widespread and common e.g. Mor Yayla
<i>Origanum acutidens</i>	Sivrikaya
<i>Origanum rotundifolium</i>	Common in drier valleys, large creamy bracts, widespread e.g. Pişenkaya, Taşkıran
<i>Origanum vulgare</i>	Scattered in mountains, roadsides e.g. Sivrikaya ?
<i>Prunella vulgaris</i>	Widespread e.g. Sivrikaya
<i>Salvia forskahlei</i>	Ortan, lilac-blue flowers, Sivrikaya ?
<i>Salvia glutinosa</i>	Common in damper woodland edges e.g. Anzer area, Çam Pass En route to Çıldır Gölü
<i>Salvia nemorosa</i>	
<i>Salvia sclarea</i>	
<i>Salvia verticillata</i>	Widespread e.g. Anzer Yayla
<i>Scutellaria albida</i>	Small white flowers on spikes, roadsides e.g. Yaylalar
<i>Scutellaria orientalis</i>	Yaylalar, en route to Çıldır Gölü ?
<i>Scutellaria pontica</i>	Pretty pink species, Ovit Dağ
<i>Stachys balansae</i>	Ovit Dağ, Mor Yayla, Pişenkaya
<i>Stachys macrantha</i>	Common in higher area, loose heads of long-tubed pink flowers e.g. Sivrikaya, Mor Yayla
<i>Stachys macrastachya</i>	Deep pink dense spikes, Mor Yayla
<i>Teucrium chamaedrys</i>	Widespread e.g. Anzer Yayla, Mor Yayla, Yaylalar
<i>Teucrium orientale</i>	Pretty blue species at Mor Yayla
<i>Teucrium polium</i>	Yaylalar
<i>Thymus praecox</i>	Alpine turf e.g. Ovit Dağ
<i>Thymus transcaucasicus</i>	Mor Yayla

### ***Lemnaceae***

*Spirodela polyrhiza*

### ***Lentibulariaceae***

*Pinguicula balcanica*

Ovit Dag, a butterwort

### ***Linaceae***

*Linum austriacum*

En route to Çıldır Gölü

*Linum catharticum* Ovit Dağ, Anzer yayla  
*Linum hypericifolium*  
*Linum tenuifolium* Laset

### ***Lythraceae***

*Lythrum salicaria* Widespread e.g. Anzer Yayla, Pişenkaya

### ***Malvaceae***

*Alcea apterocarpa* Barhal area  
*Alcea hohenackeri* Anzer Yayla  
*Alcea celvertii* Laset  
*Alcea dissecta* En route to Olgunlar  
*Althaea cannabina* Barhal  
*Malva neglecta* Widespread e.g. Barhal

### ***Monotropaceae***

*Monotropa hypopithys* Pale yellow saprophyte – yellow bird's nest, woods, Çam Pass

### ***Moraceae***

*Morus alba* Orchards  
*Morus nigra* Yusufeli  
*Ficus carica* Widely planted

### ***Nymphaeaceae***

*Nymphaea alba* Çıldır Gölü

### ***Oleaceae***

*Fraxinus excelsior* Scattered in damper situations e.g. Pişenkaya  
*Olea europaea* Olive groves in lower areas, Yaylalar

### ***Onagraceae***

*Epilobium alpestre* Ovit Dağ  
*Epilobium dodonaei* Like a more slender rosebay willowherb, Pişenkaya, Olgunlar  
*Epilobium hirsutum* Mor Yayla  
*Epilobium ponticum* Widespread by streams and wet areas e.g. Anzer area  
*Chamaenerion angustifolium* Abundant e.g. Ovit Dağ  
*Circaea lutetiana* Woods, Anzer area

### ***Orobanchaceae***

*Orobanche alba* Mor Yayla  
*Orobanche lutea* Sivrikaya  
*Orobanche mutelii*  
*Orobanche pubescens* Ovit Dağ  
*Orobanche ramosa* Yaylalar

## ***Oxalidaceae***

*Oxalis acetosella* Woods,Sivrikaya

## ***Papaveraceae***

*Papaver fugax* Smallish pale orange flowers in Barhal area,Yaylalar  
*Papaver lateritium* Fine orange flowered species in mountains e.g. Ovit Dağ,Mor Yayla  
*Papaver orientale* Pişenkaya,Olgunlar  
*Glaucium corniculatum* Barhal  
*Chelidonium majus* Barhal area,Sivrikaya

## ***Parnassiaceae***

*Parnassia palustris* Widespread e.g. Çamlık

## ***Phytolaccaceae***

*Phytolacca americana* Scattered alien

## ***Plantaginaceae***

*Plantago lanceolata*  
*Plantago major* Widespread e.g. en route Ovit Dağ

## ***Plumbaginaceae***

*Acantholimon ulicinum* Mor Yayla, spiny cushions with pink flowers  
*Plumbago europaea* Barhal area

## ***Polygalaceae***

*Polygala alpestris* Karagol  
*Polygala anatolica* Larger pink species,Anzer area,Çam Pass  
*Polygala major*

## ***Polygonaceae***

*Oxyria digyna*  
*Polygonum alpinum* Widespread e.g.Anzer Yayla,Mor Yayla  
*Polygonum amphibium* Karagol  
*Polygonum bistorta ssp.carneum* Widespread e.g. Mor Yayla, Anzer, Çam Pass,deep pink. Long stems.  
*Polygonum hydropiper*  
*Polygonum minor*  
*Rumex acetosella*  
*Rumex alpines* Ovit Dağ,Anzer  
*Rumex angustifolius* Mor Yayla  
*Rumex maritimus* Çıldır Gölü ?  
*Rumex caucasicus* Anzer Yayla  
*Rumex cristatus* Widespread  
*Rumex scutatus* Scattered e.g. Anzer Yayla,Mor Yayla

## ***Primulaceae***

<i>Lysimachia verticillaris</i>	Widespread in woodland edge, spikes of yellow e.g. Anzer Yayla, Pişenkaya
<i>Lysimachia vulgaris</i>	Barhal
<i>Primula algida</i>	
<i>Primula auriculata</i>	Widespread in mountains e.g. Ovit Dağ, Mor Yayla, Pişenkaya etc.
<i>Primula elatior ssp meyeri</i>	Handsome deep pink species, rosettes of crinkled leaves, loose heads e.g. Ovit Dağ, Anzer Yayla
<i>Primula longipes</i>	Ovit Dağ
<i>Primula veris</i>	
<i>Primula vulgaris</i>	Sivrikaya ?

## ***Punicaceae***

<i>Punica granatum</i>	Orchards ,Barhal area
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## ***Pyrolaceae***

<i>Pyrola rotundifolia</i>	Woods, Barhal
<i>Orthilia secunda</i>	Woods ,Barhal

## ***Ranunculaceae***

<i>Aconitum anthora</i>	Pale yellow species, common on Çam Pass
<i>Aconitum nasutum</i>	Tall blue species on Çam Pass
<i>Aconitum orientale</i>	Whitish to lilac, slender flowers, large dissect leaves, Anzer Yayla and Çam Pass
<i>Anemone albana</i>	Scattered with a few in flower at Mor yayla
<i>Anemone narcissiflora</i>	Leaves on Anzer Yayla, in flower at Çam Pass
<i>Aquilegia olympica</i>	Anzer area, Barhal area prefers to be among rhododendron scrub Ovit Dağ
<i>Caltha polypetala</i>	
<i>Clematis orientalis</i>	Yusufeli
<i>Clematis vitalba</i>	In flower near Barhal
<i>Consolida regalis</i>	
<i>Consolida orientalis</i>	
<i>Delphinium dasystachyum</i>	Mor Yayla
<i>Delphinium formosum</i>	Anzer and Cam Pass, in meadows, tall with deep blue flowers, close to <i>flexuosum</i> but I now believe all of the tall delphiniums are this species.
<i>Delphinium flexuosum</i>	Previously recorded for Cam Pass, however, I think these may all be <i>formosum</i> given the their greater height (well in excess of 100cm) and altitude (2400m) and given distribution in the Turkish Flora
<i>Delphinium linearilobum</i>	
<i>Delphinium schmalhausentii</i>	Some of the tall delphiniums with very dissect leaves on the Çam Pass are this species
<i>Paeonia mascula</i>	Pişenkaya
<i>Ranunculus brachylobus</i>	Fine golden flowered species en route to Ovit Dağ ?

*Thalictrum minus* Sivrikaya, Anzer Yayla  
*Trollius ranunculinus* Widespread leaves e.g. Barhal

### ***Rhamnaceae***

*Frangula alnus* Barhal area  
*Myricaria germanica*  
*Paliurus spina-christi* Widespread e.g. en route to Barhal

### ***Rosaceae***

*Agrimonia eupatorium* Slender spikes of yellow flowers, meadows. Widespread e.g. Anzer area, Pişenkaya  
*Alchemilla mollis* Yaylalar  
*Alchemilla sericea* Anzer Yayla  
*Aruncus vulgaris* Widespread e.g. Ovit Dağ, Pişenkaya  
*Crataegus monogyna*  
*Crataegus orientalis* Barhal area  
*Filipendula ulmaria* Çam Pass  
*Filipendula vulgaris* En route to Çıldır Gölü ?  
*Fragaria vesca* Widespread e.g. Pişenkaya, Dibe Yaylalar  
*Geum coccineum* Anzer Yayla  
*Geum rivale* Çam Pass  
*Laurocerasus officinalis*  
*Mespilus germanica*  
*Potentilla adsharica* Mor Yayla  
*Potentilla argentea* Mor Yayla, Dibe Yaylalar  
*Potentilla crantzii* Widespread e.g. Ovit Dağ, Anzer Yayla  
*Potentilla erecta*  
*Potentilla rupestris* Mor Yayla  
*Potentilla recta* Mor Yayla, Sivrikaya etc.  
*Pyrus salicifolia*  
*Rosa canina*  
*Rosa heckeliana* Sivrikaya, Ovit Dağ ?  
*Rosa villosa*  
*Rubus idaeus* Delicious! Widespread e.g. Pişenkaya  
*Rubus sanctus* The widespread bramble  
*Sanguisorba minor* Widespread e.g. Ovit Dağ, white flowers  
*Sanguisorba officinalis* Reddish flowers, e.g. Cam Pass  
*Sibbaldia parviflora* Widespread in mountains e.g. Ovit Dağ, Anzer Yayla  
*Sorbus aucuparia*  
*Sorbus umbellata* Mor Yayla

### ***Rubiaceae***

*Asperula orientalis* Barhal area  
*Asperula gracilis* Anzer Yayla, mat-forming

<i>Asperula pontica</i>	
<i>Cruciata laevipes</i>	?
<i>Cruciata taurica</i>	Anzer Yayla, Mor Yayla
<i>Galium incanum</i>	
<i>Galium odoratum</i>	
<i>Galium verum</i>	

### ***Salicaceae***

<i>Populus tremula</i>	Common and widespread e.g. Anzer Yayla, Mor Yayla
<i>Populus uzbekistana</i>	Widely planted upright tree e.g. Anzer Yayla, Mor Yayla
<i>Salix alba</i>	
<i>Salix caprea</i>	Mor Yayla

### ***Santalaceae***

<i>Thesium procumbens</i>	Anzer Yayla ,Mor Yayla
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### ***Saxifragaceae***

<i>Chrysosplenium dubium</i>	Scattered
<i>Saxifraga cymbalaria</i>	Widespread little yellow species, ivy-like leaves e.g. Sivrikaya, Anzer area
<i>Saxifraga paniculata</i>	Widespread, common on rocks e.g. Ovit Dağ, Mor Yayla, encrusted leaves
<i>Saxifraga rotundifolia</i>	Scattered e.g. Anzer Yayla, round, hairy leaves
<i>Saxifraga sibirica</i>	Widespread in mountains e.g. Ovit Dağ, white flowers

### ***Scrophulariaceae***

<i>Digitalis ferruginea</i>	Widespread and common, tall spikes of rust coloured flowers e.g. en route to Ovit Dağ, Anzer Yayla
<i>Euphrasia lebadensis</i>	Ovit Dagi
<i>Linaria genistifolia</i>	Anzer Yayla
<i>Linaria grandifolia</i>	Pretty yellow flowers, Cicek Pass
<i>Melampyrum arvense</i>	Widespread and common cow-wheat e.g. Anzer Yayla, Olgunlar
<i>Odontites aucheri</i>	Slender bartsia with yellow flowers, quite widespread e.g. Mor Yayla
<i>Pedicularis atropurpurea</i>	Largely over, tall spikes dark flowers, Ovit Dag
<i>Pedicularis caucasica</i>	White flowers, low growing. Mor Yayla
<i>Pedicularis comosa</i>	Tall white species, Mor Yayla
<i>Pedicularis condensata</i>	Ovit Dag, dense heads of creamy flowers
<i>Pedicularis nordmanniana</i>	Small pink species Ovit Dağ, Mor Yayla
<i>Pedicularis pontica</i>	Ovit Dağ, Anzer Yayla
<i>Rhynchocorys elephas</i>	Pretty yellow flowers, wide lip and obvious yellow beak. Anzer area Aktaş Gölü
<i>Rhynchocorys orientalis</i>	Sivrikaya, en route to Ovit Dağ
<i>Rhynchocorys stricta</i>	
<i>Verbascum armenum</i>	Abundant at Mor Yayla, Anzer Yayla
<i>Verbascum speciosum</i>	Çam Pass

<i>Verbascum trichostylum</i>	Yaylalar
<i>Veronica anagallis-aquatica</i>	Widespread e.g. Anzer Yayla
<i>Veronica beccabunga</i>	Scattered e.g. Anzer Yayla, Mor Yayla
<i>Veronica gentianoides</i>	Scattered in mountains, relatively large flowers in spikes,e.g. Ovit Dağ,Anzer Yayla,Mor Yayla
<i>Veronica orientalis</i>	Mor yayla
<i>Veronica peduncularis</i>	

### ***Simaroubaceae***

*Ailanthus altissima*

### ***Solanaceae***

<i>Atropa belladonna</i>	Scattered e.g. Anzer Yayla
<i>Hyoscyamus niger</i>	Scattered e.g. Sivrikaya,Anzer Yayla
<i>Solanum alatum</i>	Coruh Valley
<i>Solanum nigrum</i>	Widespread e.g. Barhal area

### ***Tamaricaceae***

<i>Myricaria germanica</i>	Widespread e.g. Taşkiran
<i>Tamarix smyrniensis</i>	

### ***Thymelaeaceae***

<i>Daphne glomerata</i>	Widespread, but few in flower e.g. Ovit Dağ roadside, Anzer area
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### ***Tiliaceae***

<i>Tilia rubra</i>	Barhal area
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### ***Ulmaceae***

<i>Celtis glabrata</i>	Barhal area ?
<i>Ulmus glabra</i>	Anzer area

### ***Urticaceae***

<i>Urtica dioica</i>	Widespread e.g. Anzer Yayla,Pişenkaya
<i>Parietaria judaica</i>	

### ***Urticulariaceae***

<i>Pinguicula balcanica ssp. pontica</i>	?
<i>Urticularia vulgaris</i>	Çıldır Gölü

### ***Valerianaceae***

	Yaylalar
<i>Centranthus longiflorus</i>	
<i>Valeriana alliarifolia</i>	Widespread and common, large triangular leaves, huge corymbs of flowers, but largely over.E.g. Sivrikaya,Ovit Dağ,Anzer Yayla etc.

## ***Violaceae***

<i>Viola altaica</i>	Anzer Yayla
<i>Viola arvensis</i>	Scattered e.g. Anzer Yayla,Çam Pass
<i>Viola dichroa</i>	Mor Yayla
<i>Viola odontocalycina</i>	Pretty species in scree at Mor Yayla

## ***Vitaceae***

<i>Vitis vinifera</i>	Grapevine. Widespread
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## ***Alismataceae***

<i>Alisma plantago-aquatica</i>	Çıldır Gölü ?
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## ***Commelaceae***

<i>Commelina communis</i>	Sivrikaya, pretty blue flowers ?
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## ***Dioscoreaceae***

<i>Tamus communis</i>	Scattered e.g. Anzer area
<i>Schoenoplectus lacustris</i>	

## ***Butomaceae***

<i>Butomus umbellatus</i>	Çıldır Gölü ?
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## ***Iridaceae***

<i>Crocus scharojonii</i>	
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## ***Liliaceae***

<i>Allium atrovioleaceum</i>	
<i>Allium guttatum</i>	Yaylalar
<i>Allium olympicum</i>	Olgunlar, Cam Pass, this is possibly the delicate little species seen here
<i>Allium szovitsii</i>	Anzer yayla
<i>Allium schoenoprasum ssp.sibiricum</i>	Ovit Dağ, etc
<i>Allium sphaerocephalon</i>	
<i>Colchicum speciosum</i>	Anzer Yayla, Yaylalar Leaves,Ovit Dağ
<i>Gagea villosa</i>	
<i>Gagea glacialis</i>	
<i>Lilium ponticum</i>	Near Ovit Dag
<i>Polygonatum orientale</i>	
<i>Scilla winogradowii</i>	
<i>Veratrum album</i>	Scattered, large ribbed leaves e.g. Anzer Yayla, Pişenkaya

## ***Orchidaceae***

<i>Coeloglossum viride</i>	Sivrikaya,Anzer Yayla,Pişenkaya
<i>Dactylorhiza iberica</i>	?

<i>Dactylorhiza osmanica</i>	Anzer area, Mor Yayla
<i>Dactylorhiza urvilleana</i>	En route to Çamlık, etc slender
<i>Epipactis helleborine</i>	Anzer area
<i>Epipactis veratrifolia</i>	Anzer Yayla
<i>Epipogium aphyllum</i>	Over 100 in flower near Laşet
<i>Goodyera repens</i>	
<i>Neottia nidus-avis</i>	Laset
<i>Gymnadenia conopsea</i>	Barhal area ?
<i>Traunsteinera sphaerica</i>	Sivrikaya

### ***Poaceae***

<i>Briza macrowiczii</i> ?	Ovit Dağ
<i>Briza minor</i>	Yaylalar
<i>Briza media</i>	
<i>Holcus lanatus</i>	
<i>Melica ciliata</i>	Yaylalar
<i>Phleum alpinum</i>	Mountain meadows, hare's foot e.g. Ovit Dağ
<i>Poa alpine</i>	Anzer, etc
<i>Stipa arabica</i>	Mor Yayla

### ***Potamogetonaceae***

*Potamogeton natans*

### ***Typhaceae***

*Typha latifolia*

## Systematic List Number 2      Butterflies

This list was compiled by Peter Waterton

Swallowtail	<i>Papilio machaon.</i>
Swallowtail	<i>Iphiclides podalirius.</i>
Apollo	<i>Parnassius apollo.</i>
Clouded Apollo	<i>Parnassius mnemosyne.</i>
Large White	<i>Pieris brassicae.</i>
Black-veined White.	<i>Aporia crataegi.</i>
Small White.	<i>Artogeia rapae.</i>
Mountain Small White	<i>Artogeia ergane.</i>
Green-veined White	<i>Artogeia napi.</i>
Kreupers Small White	<i>Artogeia kreuperi.</i>
Eastern Bath White	<i>Pontia edusa.</i>
Clouded Yellow	<i>Colias crocea.</i>
Pale Clouded Yellow	<i>Colias hyale.</i>
Balkan Clouded Yellow	<i>Colias caucasica.</i>
Brimstone	<i>Gonepteryx rhamni</i>
Powdered Brimstone	<i>Gonepteryx farinosa</i>
Wood White	<i>Leptidea sinapsis</i>
Eastern Wood White	<i>Leptidea duponcheli</i>
Ilex Hairstreak	<i>Satyrrium ilicis</i>
Gerhards Hairstreak	<i>Satyrrium abdominalis</i>
Anatolian Fiery Copper	<i>Lycaena asabinus</i>
Small Copper	<i>Lycaena phlaeas</i>
Turkish Fiery Copper	<i>Lycaena ochimus</i>
Scarce Copper	<i>Lycaena virgaureae</i>
Sooty Copper	<i>Lycaena tityrus</i>
Lesser Fiery Copper	<i>Lycaena thersamon</i>
Balkan Copper	<i>Lycaena candens</i>
Little Tiger Blue	<i>Taurucus balkanicus</i>
Short-tailed Blue	<i>Everes argiades</i>
Little Blue	<i>Cupido minimus</i>
Holly Blue	<i>Celastrina argiolus</i>
Alcon Blue	<i>Maculinea alcon</i>
Iolas Blue	<i>Iolana iolas</i>
Eastern Baton Blue	<i>Pseudophilotes vicrama</i>
Silver-studded Blue	<i>Plebejus argus</i>
Reverdins Blue	<i>Plebejus argyrognomon</i>
Eastern Brown Argus	<i>Kretania eurypilus</i>
Geranium Argus	<i>Eumedonia eumedon</i>
Mountain Argus	<i>Aricia artaxerxes</i>
Blue Argus	<i>Ultraaricia anteros</i>
Gavarnie Blue	<i>Agriades pyrenaicus</i>
Riparts Anomalous Blue	<i>Polyommatus ripartii</i>
Anomalous Blue	<i>Polyommatus admetus</i>
Meleagers Blue	<i>Polyommatus daphnis</i>
Damon Blue	<i>Polyommatus damon</i>
Amandas Blue	<i>Polyommatus amandus</i>
Adonis Blue	<i>Polyommatus bellargus</i>
Common Blue	<i>Polyommatus icarus</i>
Tankers Blue	<i>Polyommatus tankeri</i>
Nettle Tree	<i>Libythea celtis.</i>

Southern White Admiral	<i>Limenitis reducta</i>
Hungarian Glider	<i>Neptis rivularis</i>
Red Admiral	<i>Vanessa atalanta</i>
Painted Lady	<i>Cynthia cardui</i>
Small Tortoiseshell	<i>Aglais urticae</i>
Comma	<i>Polygonia c-album</i>
Silver-washed Fritillary	<i>Argynnis paphia</i>
Dark Green Fritillary	<i>Argynnis aglaja</i>
High Brown Fritillary	<i>Argynnis adippe</i>
Queen of Spain Fritillary	<i>Issoria lathonia</i>
Twin-spot Fritillary	<i>Brenthis hecate</i>
Marbled Fritillary	<i>Brenthis daphne</i>
Caucasian Fritillary	<i>Clossiana caucasica</i>
Glanville Fritillary	<i>Melitaea cinxia</i>
Balkan Fritillary	<i>Boloria graeca</i>
Spotted Fritillary	<i>Melitaea didyma</i>
Lesser Spotted Fritillary	<i>Melitaea trivia.</i>
False Heath Fritillary	<i>Melitaea diamina.</i>
Heath Fritillary	<i>Melitaea athalia.</i>
Marbled White	<i>Melanargia galathea</i>
Balkan Marbled White	<i>Melanargia larissa.</i>
Eastern Rock Grayling	<i>Hipparchia syriaca.</i>
Anatolian Tawny Rock Brown	<i>Pseudocharzara mniszachii.</i>
Grey Asian Grayling	<i>Pseudocharzara geyeri.</i>
Great Banded Grayling	<i>Kanetisa circe.</i>
Scotch Argus	<i>Erebia aethiops.</i>
Hewitsons Ringlet.	<i>Erebia hewitsonii.</i>
Caucasian Ringlet	<i>Erebia graucasica.</i>
Alpine Ringlet	<i>Erebia melancholica.</i>
Meadow Brown	<i>Maniola jurtina.</i>
Small Heath	<i>Coenonympha pamphilus.</i>
Russian Heath	<i>Coenonympha leander.</i>
Speckled Wood	<i>Pararge aegeria.</i>
Large Wall Brown	<i>Lasiommata maera.</i>
Lederers Heath	<i>Coenonympha symphita.</i>
Large Grizzled Skipper	<i>Pyrgus alveus.</i>
Sandy Grizzled Skipper	<i>Pyrgus cinarae.</i>
Oberthur,s Grizzled Skipper	<i>Pyrgus armoricanus.</i>
Persian Skipper	<i>Spialia phlomidis.</i>
Mallow Skipper	<i>Carcharodus alceae</i>
Oriental Marbled Skipper	<i>Carcharodus orientalis.</i>
Small Skipper	<i>Thymelicus sylvestris.</i>
Essex Skipper	<i>Thymelicus lineola.</i>
Large Skipper	<i>Ochlodes venatus.</i>
Silver-spotted Skipper	<i>Hesperia comma.</i>