

Armenia - Spring Birds and Flowers

Naturetrek Tour Report

3 -11 June 2017



Bezoar's Goat - Clive Picton



Astragalus goktschiacus by Paul Harmes



Gladiolus caucasicus by Paul Harmes



Mountain Chiffchaff by Hasmik Terr-Voskanyan

Report & Images by Paul Harmes & Hasmik Ter Voskanyan.
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Tour Participants: Paul Harmes & Hasmik Ter Voskanyan (leaders) with seven Naturetrek clients
Driver: Edik and Local Agent: Armine

Day 1

Saturday 3rd June

Fly Heathrow to Moscow & Yerevan

Seven group members met with Paul at Heathrow Terminal 4 for the Aeroflot Flight SU2579 to Moscow Sheremetyevo Airport, where we saw a Common Kestrel before we transferred to Aeroflot flight SU1868 to Yerevan. We arrived at Yerevan Zvartsnots Airport where, after changing money and collecting our luggage, we met with Hasmik, our local leader, and Edik, our driver for the week. We transferred to our bus for the short journey through the Armenian capital to the Minotel Barsam Suites, our base for the first two nights of the tour. After rooms had been allocated, we retired for the night.

Day 2

Sunday 4th June

Mount Aragats

At 9.30am, following breakfast, we left the hotel and were on our way north-westwards towards Mount Aragats. Along the way we recorded Rosy Starling, Eurasian Magpie, Little Egret and numerous Common Swifts. Our first stop today was in an area of semi-degraded steppe above Byurakan, about a 40-minute drive from Yerevan. Here the botanists had an introduction to some of the characteristic steppe plants. These included *Onosma microcarpum* (a Golden Drops), *Thymus kotchyanus*, *Alkanna orientalis* (Yellow Alkanet) and *Cerinth minor* (Lesser Honeywort), whilst the birders recorded Crested Lark, Western Rock Nuthatch, Northern and Black-eared Wheatears, Woodlark and Ortolan Bunting. Butterflies included Cardinal Fritillary, Large White and Adonis Blue. As we moved a little higher, we passed *Quercus petraea* subsp. *iberica* (Georgian Oak) and *Veronica multifida* (a Speedwell). We made a second stop as we ascended into the foothills, where a 30-minute pause in an area of mountain steppe produced views of White-throated Robin, Ring Ouzel, Common Whitethroat and Red-backed Shrike. For the botanists there were *Ornithogalum transcaasicum* (a Star of Bethlehem), *Ajuga orientale* (Oriental Bugle) and *Pulsatilla albana*.

We now made the 20-minute drive to Amberd where we took our picnic in boulder-strewn grassland. Red-billed Chough, Griffon Vulture, Common House Martin, Barn Swallow and Common Swift were all seen as we ate. We now took the opportunity to visit the seventh century church and fortress whilst we were there. Here we found the rare *Allium tripedale*, *Valeriana leucophaea*, *Scrophularia chrysantha* (Golden Figwort) and *Isatis tinctoria* (Woad). We had superb views of Black-headed Bunting, and Clouded Apollo, Berger's Clouded Yellow and Large White butterflies were also recorded.

Most of our remaining time on Mt. Aragats was devoted to exploring the alpine zone where a fair amount of snow remained. The botanists enjoyed *Gagea glacialis* (Glacier Yellow Star of Bethlehem), *Scilla siberica* subsp. *armena*, *Pulsatilla albana*, *Colchicum raddianum* (a Crocus) and *Puschkinia scilloides* (Puschkinia). Birds included Horned Lark, Water Pipit, Alpine Accentor, Black Redstart and White-winged Snowfinch. We also had great views of Bearded Vulture.

Our final stop of the day was in the sub-alpine zone, where the birders found Radde's Accentor. Common Rock Thrush and Red-backed Shrike. The botanists added *Primula veris* subsp. *macrocalyx* (a Cowslip), *Solenanthus stamineus* and *Cruciata laevipes* (Crosswort).

It was now time to return to the hotel to freshen up, before visiting a nearby restaurant for dinner.

Day 3

Monday 5th June

Armash Fishponds – Noravank Gorge & Yeghegnadzor:

After breakfast we left the hotel at 9am, heading for Armash, which is on the Turkish border, an hour or so south-east of Yerevan. We drove south on the M2, passing through Artashat and Avshar. A few White Storks, some on nests, Hoopoe and Lesser Grey Shrike were seen along the way. We also made one brief stop to photograph Mount Ararat.

On arrival at the Armash Fishponds Black-crowned Night Heron and European Roller were spotted. After entering the site, we drove past two large buildings and parked between two of the lakes, on a dyke. Early sightings were Black-winged Stilt, Slender-billed Gull, Grey, Squacco and Purple Heron, Glossy Ibis and Greater Flamingo, which all showed well. Setting off from the bus, we walked the tracks beside two large ponds. In the marginal reeds, Bearded Reedling, Penduline Tit, European Reed Warbler and Great Reed Warbler were active, and Cetti's Warblers were calling. As we reached an area of grassland, European Roller was seen, together with two Black-headed Yellow Wagtails. On the open water we saw Ferruginous Duck and Red-crested Pochard. Eurasian Coot and a good number of Pygmy Cormorants were also present. For the botanists this was a fascinating, inland, saline habitat. Many of the plants found here were some 1,000 miles from the nearest coast. *Chenopodium glaucum* (Oak-leaved Goosefoot), *Lepidium latifolium* (Dittander), *Cynodon dactylon* (Bermuda Grass), *Sphaerophysa salsula* (Red Bladder-vetch) and *Suaeda maritima* (Sea-blite) were all recorded, as well as Black-tailed Skimmer, and Red-veined Darter dragonflies.

We now made our way back to the vehicle for the short journey to the lunch stop, on the south side of the site. As we went, we added White-tailed Lapwing and Common Kingfisher. We took our picnic lunch under the shade of a solitary *Elaeagnus angustifolia* (Russian Olive). After eating, it was time to move on. Having left the fish ponds, we stopped for ice cream before continuing our journey eastwards through Sevakanan, on our way north.

Our next stop was at the head of the Noravank Gorge, where we parked up in a prolonged, heavy, local shower. In the area around the ancient churches we found a pair of Western Rock Nuthatches feeding young, Common Linnet, Goldfinch, Northern and Black-eared Wheatear, Red-billed Chough and had a fleeting glimpse of Golden Eagle. The rocky slopes and a good show of *Eremostachys molucelloides* and *Pistacia atlantica* (Mount Atlas Mastic Tree).

From here, it was only about 10 kilometres to our Homestay accommodation in Yeghednazor, where we arrived just after 5pm, to the song of Eurasian Golden Oriole and Common Nightingale, and to be met by Gohar, our host.

Day 4

Tuesday 6th June

Mount Gndasar - Gnishik

Golden Oriole was heard this morning as we were getting up, to be on our way at 5am. We travelled in 4x4 vehicles towards the village of Hors, where we left the public roads and started to climb on mountain tracks, in the direction of Mount Gndasar. We made steady progress to the first stopping point, recording Common Whitethroat and Black-headed Bunting as we climbed. We began scanning for Caspian Snowcock, but these elusive birds remained hidden. However, we did locate three distant Brown Bears: one solitary adult and one adult with a cub. Among the birds were Ring Ouzel, Common Buzzard and Rock Bunting. Plants seen included *Onosma tenuiflora*, *Eremurus spectabilis* (Yellow Foxtail Lily), *Orchis palustris*, *Rumex alpinus* (Monk's Rhubarb) and *Lallemantia iberica*. As the sun rose, insects became more obvious, and Scarce Swallowtail, Eastern Dappled White, Orange Tip and Clouded Apollo were all noted.

We now moved to a second location, in a col, and began to scan once more for the Snowcock. We soon added Golden Eagle, Chukar Partridge, Red-backed Shrike, Common Cuckoo and Tree Pipit, but, sadly, we could not locate the Caspian Snowcock. Around our feet we found *Eremogone (Arenaria) dianthoides* (a Sandwort), *Geranium tuberosum* (Tuberous Crane's-bill), *Eremogone gypsophilooides* and *Silene spergulifolia* (a Catchfly).

It was now time to move back down the mountain, stopping on the descent to admire a fine stand of *Gladiolus caucasicus* (Caucasian Gladiolus) and, growing with it, *Echium russicum* (Red Bugloss) and *Lathyrus miniatus* (a Red Pea). Additional insects included Dingy Skipper, Green-underside Blue, Oberthur's Grizzled Skipper, Small White and Heath Fritillary for the butterflies, and Black-veined, Chimney Sweeper and Burnet Companion moths. We now re-joined our vehicles for the journey back to base. As we were moving down the mountain, one of our drivers spotted another Bear. This time it was a solitary juvenile, probably only recently parted from its mother.

Upon our return to our accommodation, we took lunch, before joining Edik and our own bus for an afternoon excursion. Our final destination today was among the high, rolling meadows and rocky gorges at Gnishik, south of Yeghednadzor. Here we left our vehicle at the top of the quiet valley and began to walk down. Skylark, Black-headed Bunting, Common Whitethroat and European Bee-eater and Black-eared Wheatear were early finds for the birders. The botanists explored the open meadows and verges, finding the endemic *Onobrychis cornuta* (a Sainfoin), *Astragalus fragrans*, *Gladiolus atroviolaceus*, *Onobrychis radiata*, *Achillea arabica* (Bieberstein's Millfoil), *Rosa hemisphaerica* and *Hypericum scabrum* (a St. John's-wort). Lower down, European Stonechat and Blue Rock Thrush were added, Common Quail was singing, and we had distant views of Long-legged Buzzard. Butterflies included Black-veined White, Adonis Blue, Cardinal Fritillary, Queen of Spain Fritillary and Clouded Yellow. It was then time to return to Yeghednadzor to freshen up before going out to dinner.

Day 5

Wednesday 7th June

Selim Pass & Plateau – Shore of Lake Sevan

After breakfast, we left the Homestay accommodation, bidding farewell to Gohar, and were soon on our way northwards towards the Selim Pass and plateau. Along the way we saw White Wagtail, Hoopoe and Black-eared Wheatear.

Our first stop was on the twisting road that leads to the Selim Pass, at the Caravanserai, the resting place of travellers on the Silk Road in medieval times. While here we found Hoopoe, Whinchat, Crag Martin, Common Rosefinch, and Rock Sparrow. Meanwhile, along the roadside, there were *Symphytum asperum* (Rough Comfrey), *Cerastium purpurescens*, *Alchemilla glabra* (Smooth Lady's-mantle) and *Tragopogon reticulatus* (a Goat's-beard). As we were about to leave, a Long-legged Buzzard was spotted, circling.

Moving on, we soon reached the wide Selim Plateau, an extensive area of wet meadows and streams which produced *Pedicularis condensata* (Condensed Lousewort) and *Pedicularis wilhelmsiana* (Wilhelm's Lousewort), *Veronica gentianoides* (Gentian-like Speedwell), *Caltha palustris* (Marsh Marigold), *Primula auriculata* (a Bird's-eye Primrose) and large numbers of *Dactylorhiza umbrosa* (a Marsh Orchid). For the birders, there was Common Rosefinch, Common Sandpiper, Bluethroat, Black-headed Yellow Wagtails (*feldegg* race), and Common Whitethroat.

We now descended to the shores of Lake Sevan, near Lichk, where we spent some time in marginal reclaimed grassland, scrub and woodland. Before setting off to explore, we took lunch by the river where we heard Cetti's Warbler and Mountain Chiffchaff. After lunch we set off towards a small lake. As we progressed, we saw *Lappula squarrosa* (Bur Forget-me-not), *Cynoglossum officinale* (Common Hound's-tongue), *Nonea armeniaca* and *Buglossoides arvensis* (Corn Gromwell). Here, the birds included Little Grebe, Western Marsh Harrier, Grey Heron, Eurasian Coot and Gadwall. However, the spectacle of the day was a cloud of some hundreds of Sand Martins in the air and at their nest holes in a sandy bank.

Our final stop was at 'Gull island', on Lake Sevan near to the village of Norashen. Here we got our first real opportunity to study Armenian Gull at fairly close quarters, and good scoped views were had by all. We also recorded Great Crested Grebe, Western Cattle Egret, Black-crowned Night Heron, Little Egret, Great Cormorant, Glossy Ibis and Ruddy Shelduck.

The final leg of our journey to Dilijan took just under an hour, before we arrived at the rather grand Dilijan Resort Hotel. After checking in, we retired to freshen up before dinner.

Day 6

Thursday 8th June

Parz Lich Forest - Haghartsin Forest & the Sevan Pass

An early bird walk, around the hotel grounds, produced Robin, Green Warbler and Middle Spotted Woodpecker.

After breakfast at 8am, we were ready to leave by 9am for the 15-minute drive to an area of broadleaf woodland at Parz Lich, where the forest produced *Fagus orientalis* (Oriental Beech), *Quercus macranthera* (Caucasian Oak) and *Zelkova (Ulmus) carpinifolia* (Caucasian Elm). As we left our vehicle, we immediately found Eurasian Nuthatch, Eurasian Treecreeper and a Song Thrush was singing. Further on up the track, the woodland had Coal Tit, Common Chaffinch and Great Tit for the birders, and for the botanists, *Dactylorhiza urvilleana*, *Bunias orientalis* (Warty Cabbage), *Hesperis matronalis* (Dame's Violet), *Cardamine impatiens* (Cut-leaved Bitter-cress), *Cephalanthera damasonium* (White Helleborine), *Neottia nidus-avis* (Bird's-nest Orchid) and the curious *Rhynchochorys orientalis*.

Moving on, we made the short journey to the wooded valley of Haghartsin and spent time exploring the woodland there. Bird sightings included Red-breasted Flycatcher, Great Spotted Woodpecker, and Spotted Flycatcher. The botanists added a number of Orchid species, including emerging *Cephalanthera rubra* (Red Helleborine) and *Platanthera bifolia* (Lesser Butterfly Orchid). Within the forest, there were a number of picnic shelters, so we took our picnic lunch here.

As we finished lunch, it began to rain, so we made the short hop to the Haghartsin Church, which group members took time to visit. Plants by the roadside included more of the *Rhynchochorys orientalis*, *Gypsophila elegans* (Gypsophila), and *Heracleum mantagazzianum* (Giant Hogweed).

As it had now stopped raining, we now made our way into Dilijan for ice cream, before we moved on to the sub-alpine zone of the Sevan Pass where the whole group set off into the flower-rich meadows, near the village of Semyonovka. The wonderful meadows produced *Anemone narcissiflora* subsp. *fasciculata*, *Veronica gentianoides* (Gentian-like Speedwell) and *Pedicularis condensata* (Condensed Lousewort). Here, we also recorded Green-veined White; the birders had Lesser Spotted Eagle, Long-legged Buzzard, Corn Bunting, Common Rosefinch and they heard Common Quail and Corncrake. A second stop on a sunny bank added Pearl-bordered Fritillary, Woodland Ringlet and Dingy Skipper as well as Armenian Rock Lizards.

We now returned to the hotel in time for dinner.

Day 7

Friday 9th June

Pambak Mountain Ridge – Travel to Yeravan

All of the group members joined Hasmik and Paul on an early morning excursion to try to see Caucasian Grouse. We left the hotel, following at 5am in 4x4 vehicles, to make the journey to an isolated mountain top west of Dilijan. The track up this remote mountain was very uneven and stony. After an hour and a half we arrived just below the summit, c.2,600 metres above sea level, in low cloud. Scanning of the mountainside for the Caucasian Grouse proved rather difficult! However, Common Rosefinch, Water Pipit, and Northern Wheatear, were found. For the botanists, the highlights were *Rhododendron caucasicum* (Caucasian Rhododendron), *Fritillaria collina*, *Gentiana pyrenaica* (Pyrenean Gentian) and *Primula ruprechtii* (Ruprecht's Primrose) among many many more. At this point, we took our packed breakfast, before moving higher, in an attempt to get above the low cloud. This proved to be a good decision, as the top of the ridge was in bright sunshine, although unfortunately, we were still not able to locate any Grouse. We

did add Rosy Starling, Armenian Gull and Common Whitethroat, while additional plants included *Pedicularis armena* (Armenian Lousewort), *Gentiana aquatica* and *Primula algida*.

We then headed back down the mountain, passing herders and their cattle on the high grazing pastures. A brief pause on the downward journey added *Corallorhiza trifida* (Coralroot Orchid) and *Gymnadenia conopsea* (Fragrant Orchid), as well as good views of Mountain Chiffchaff. We made our way back to Dilijan to collect our luggage and started the journey back to Yerevan, having our picnic lunch in the hotel grounds, before we set off.

On the return journey, we stopped at a dry gorge near the village of Bjni. Here the birders found Common Rock Thrush, Booted Eagle, Rock Bunting, Ortalan Bunting, Crag Martin and Common Rosefinch. Plants included *Hypericum scabrum*, (Rough St. John's-wort), *Lappula squarrosa* (Bur Forget-me-not), *Marrubium vulgare* (White Horehound), *Onobrychis cornuta* and two scarce endemics, *Astragalus goktschiacus* and *Campanula caucasica* (Caucasian Bellflower). Queen of Spain Fritillary, Eastern Wood White, Large White and Adonis Blue butterflies, together with Churchyard Beetle and Roesel's Bush-cricket, were also seen.

We arrived at the Minotel Hotel in good time to freshen up before going out to dinner at a local restaurant.

Day 8

Saturday 10th June

Near Hatsavan – Garni

After breakfast, we set off south-eastwards towards Garni, tuning right after about 40 minutes, in the direction of Artashat. We stopped in the vicinity of Hatsavan, an area of semi-desert in the direction of the Azet Reservoir. As we approached our destination, a solitary Long-legged Buzzard and several Isabelline Wheatears were spotted. We made a short stop on the quiet roadside, adding Rosy Starling, Crested Lark and a distant Female Finsch's Wheatear. The verges and adjacent dry fields produced *Onopordum armenum* (Armenian Cotton Thistle) *Capparis spinosa* (Caper) and *Glaucium elegans*.

Moving a little further on, we left our vehicle to explore the track alongside some new fruit tree plantations, we came upon a good number of *Centaurea moschata* (Sweet Sultan), *Glaucium elegans*, *Lappula squarrosa* (Bur Forget-me-not), *Senecio caucasica* (Caucasian Ragwort), *Caccinia macranthera* and *Consolida divaricata* (a Larkspur). Meanwhile, the birders found Isabelline Wheatear and Black-eared Wheatears as well. Added to these were Rufous Bush Robin, Upcher's Warbler, and Pale Rockfinch. Butterflies included Powdered Brimstone, Cardinal Fritillary, Common Blue, Eastern Marbled White and Eastern Dappled White.

A short final stop in this desert landscape produced some distant views of Finsch's Wheatear.

It was now time to make our way into the small town of Garni, where lunch was taken in a local restaurant. On our arrival, we watched a demonstration of how the local flat-bread, 'Lavash', was prepared and cooked in a floor oven. We then had the opportunity to taste it with herbs and cheese, and

all agreed it was very good. After a delicious lunch of salad and barbecued fish, we re-joined our vehicle for the short drive to visit to the last remaining example of a Pagan Temple in Armenia, this one dedicated to the god Mihr. Whilst there, we recorded Levant Sparrowhawk, Common Kestrel, Alpine Swift and Common House Martin. In addition, there were a good number of Cardinal Fritillaries.

We now began to make the return journey to Yerevan. Along the way we stopped for photographs, and also recorded Black-headed Bunting and European Roller, as well as *Chardinia orientalis*, *Cirsium congestum* (Congested Thistle) and *Helichrysum armenium* (Armenian Everlasting). It was now time to make our way back to Yerevan. Dinner tonight was in another restaurant, not too far from our hotel.

Day 9

Sunday 11th June

Yerevan Botanic Gardens – Travel home.

A leisurely morning began with breakfast from 8am. After eating, we met at 9am to make the short journey to the Yerevan Botanic Gardens. In the short time we had there we heard Whitethroat and Nightingale, and saw Hooded Crow, Levant Sparrowhawk, and Hoopoe. There were also some new butterflies, including Eastern Meadow Brown, Essex Skipper, Large Skipper, White-letter Hairstreak and Southern White Admiral. At 11am we returned to the hotel to complete our packing before joining the bus for the journey to the airport.

At the Airport, we checked in for Aeroflot flight SU1861 to Moscow, and said goodbye to Edik and Hasmik. On arrival in Moscow Sheremetyevo Airport, we waited for our onward Aeroflot flight SU2584 to London Heathrow Terminal 4, which left at 8.25pm local time. On arrival at Heathrow at 9.25pm, we collected our luggage and said our goodbyes at the carousel, after an extremely enjoyable visit to Armenia.

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Species Lists

Plants (* indicates a plant is endemic)

Nomenclature contained within this list follows the taxonomic amendments, based on DNA analysis, made by the Royal Botanic Gardens, Kew and the Missouri Botanic Garden, and following The Plant List, an internationally accepted list of vascular plant families, published and maintained by these two Institutions

Scientific Name	Common Name	Comments
PTERIDOPHYTES		
FERNS & ALLIES		
Leptosporangiate Ferns		
True Ferns		
Athyriaceae		
<i>Athyrium filix-femina</i>	Lady-fern Family Lady-fern	Pambak Ridge
Cystopteridaceae		
<i>Cystopteris fragilis</i>	Bladder-fern Family Brittle Bladder-fern	Mount Gndasar
GYMNOSPERMS		
CONIFERS		
Cupressaceae		
<i>Juniperus depressus</i>	Juniper Family a Juniper	Above Byurakan
Pinaceae		
<i>Pinus sylvestris</i> var. <i>hamata</i> (<i>P. kochiana</i>)	Pine Family Koch's Pine	By Lake Sevan
ANGIOSPERMS		
FLOWERING PLANTS		
Eu-Dicots		
True Dicotyledons		
Adoxaceae		
<i>Sambucus ebulus</i>	Moschatel Family Danewort	Haghartsin Forest (leaves)
<i>Sambucus nigra</i>	Elderberry	Haghartsin Forest
<i>Viburnum lantana</i>	Wayfaring Tree	Mount Gndasar
Amaranthaceae		
<i>Chenopodium glaucum</i>	Goosefoot Family Oak-leaved Goosefoot	Armash Fishponds
<i>Salsola glauca</i>	-	Armash Fishponds
<i>Suaeda maritima</i>	Sea-blite	Armash Fishponds
Anarcardiaceae		
<i>Pistacia atlantica</i> (<i>P. mutica</i>)	Sumach Family Mount Atlas Mastic Tree	Noravank Gorge
Apiaceae		
<i>Anthriscus sylvestris</i>	Carrot Family Cow Parsley	Amberd junction
<i>Chaerophyllum temulum</i>	Chervil	Mount Gndasar
<i>Chamaescidium acaule</i>	-	Pambak Ridge
<i>Prangos ferulacea</i>	-	Roadside by Lake Sevan
<i>Sanicula europaea</i>	Sanicle	Parz Lich
<i>Turgenia latifolia</i>	-	Haghartsin

Scientific Name	Common Name	Comments
Apocynaceae <i>Cynanchum acutum</i>	Periwinkle Family Dog-strangler Vine	Armash Fishponds
Betulaceae <i>Carpinus betulus</i> (<i>C. caucasicus</i>) <i>Carpinus orientalis</i> <i>Corylus avellana</i>	Birch Family Hornbeam Oriental Hornbeam Hazel	Haghartsin Forest Parz Lich Haghartsin Forest
Boraginaceae <i>Alkanna orientalis</i> <i>Anchusa azurea</i> <i>Caccinia macranthera</i> <i>Cerinth minor</i> <i>Cynoglossum officinale</i> <i>Echium russicum</i> (<i>E. rubrum</i>) <i>Echium vulgare</i> <i>Lappula squarrosa</i> <i>Buglossoides arvensis</i> (<i>Lithospermum arvense</i>) <i>Myosotis alpestris</i> <i>Nonea armeniaca</i> <i>Onosma microcarpum</i> <i>Onosma tenuifolia</i> <i>Solenanthes stamineus</i> <i>Symphytum asperum</i>	Borage Family Yellow Alkanet Large Blue Alkanet - Lesser Honeywort Hound's-tongue Red Bugloss Viper's-bugloss Bur Forget-me-not Corn Gromwell Alpine Forget-me-not - a Golden Drops a Golden Drops - Rough Comfrey	Above Byurakan Above Byurakan Near Hatsavan Above Byurakan Amberd junction Mount Gndasar Parz Lich Near Lichk Amberd Pambak Ridge Near Lichk Above Byurakan Mount Gndasar Amberd junction Mount Gndasar
Brassicaceae <i>Alliaria petiolata</i> <i>Barbarea minor</i> <i>Bunias orientalis</i> <i>Capsella bursa-pastoris</i> <i>Cardamine bulbifera</i> <i>Cardamine impatiens</i> <i>Cardamine uliginosa</i> <i>Clypeola jonthlaspi</i> <i>Descurania sophia</i> <i>Draba bryoides</i> <i>Hesperis matronalis</i> <i>Isatis tinctoria</i> <i>Lepidium draba</i> <i>Lepidium latifolium</i> <i>Nasturtium officinale</i> <i>Sisymbrium altissimum</i> <i>Thlaspi arvense</i>	Cabbage Family Garlic Mustard - Warty Cabbage Shepherd's Purse Coralroot Bitter-cress Cut-leaved Bitter-cress - Clypeola Flixweed - Dame's Violet Woad Hoary Cress Dittander Watercress Tumbling Mustard Field Pennywort	Parz Lich Amberd junction Gnishik Near Lichk Parz Lich Parz Lich Selim plateau Above Byurakan Near Lichk Below Lake Kari Parz Lich Amberd Roadsides Armash Fishponds Near Lichk Armash Fishponds Near Lichk
Campanulaceae <i>Campanula bayerniana</i> <i>Campanula caucasica</i> <i>Campanula trachelium</i> <i>Campanula tridentata</i> <i>Michauxia laevigata</i>	Bellflower Family - Caucasian Bellflower Nettle-leaved Bellflower - -	Mount Gndasar Near Bjni Haghartsin Pambak Ridge Gnishik (in bud)

Scientific Name	Common Name	Comments
Capparaceae	Caper Family	
<i>Capparis spinosa</i>	Caper	Haghartsin
Caprifoliaceae	Honeysuckle Family	
<i>Lonicera xylosteum</i>	Fly Honeysuckle	Parz Lich (leaves)
<i>Scabiosa micrantha</i>	-	Near Hatsavan
Caryophyllaceae	Pink Family	
<i>Cerastium dioicum</i>	-	Pambak Ridge
<i>Cerastium purpurescens</i>	-	Mount Gndasar
<i>Eremogone (Arenaria) dianthoides</i>	-	Mount Gndasar
<i>Eremogone (Arenaria) gypsophiloides</i>	-	Mount Gndasar
<i>Gypsophila elegans</i>	-	Haghartsin
<i>Scleranthus perennis</i>	Perennial Knawel	Above Byurakan
<i>Silene latifolia</i>	White Campion	Amberd
<i>Silene spergulifolia</i>	-	Mount Gndasar
Celastraceae	Spindle Family	
<i>Euonymus latifolia</i>	Broad-leaved Spindle	Parz Lich
Compositae (Asteraceae)	Daisy Family	
<i>Achillea arabica (A. biebersteinii)</i>	Bieberstein's Millfoil	Above Byurakan
<i>Achillea micrantha (Yellow)</i>	-	Near Bjni
<i>Artemisia absinthium</i>	Wormwood	Above Byurakan
<i>Centaurea cheiranthifolia (white)</i>	-	Mount Gndasar
<i>Centaurea moschata (pink)</i>	Sweet Sultan	Near Hatsavan
<i>Chardinia orientalis</i>	-	Near Hatsavan
<i>Cirsium congestum</i>	-	Near Hatsavan
<i>Cnicus benedictus</i>	Blessed Thistle	Near Hatsavan
<i>Coursinia vulgaris</i>	-	Amberd junction
<i>Doronicum macrophyllum</i>	a Leopard's-bane	Pambak Ridge
<i>Echinops orientalis</i>	Oriental Globe Thistle	Near Hatsavan
<i>Erigeron caucasicus</i> subsp. <i>venustus</i>	-	Selim Pass
<i>Helichrysum armenium</i>	Armenian Everlasting	Near Hatsavan
<i>Jurinea moschus</i> subsp. <i>pinnatisecta</i>	-	Below Lake Kari
<i>Leucanthemum vulgare</i>	Oxeye Daisy	Selim Pass
<i>Onopordum acanthium</i>	Cotton Thistle	Near Lichk
<i>Onopordum armenum</i>	Armenian Cotton Thistle	Near Hatsavan
<i>Petasites albus</i>	White Butterbur	Pambak Ridge
<i>Senecio caucasicus</i>	Caucasian Ragwort	Near Hatsavan
<i>Tanacetum aureum (T. chiliophyllum)</i>	-	Above Byurakan
<i>Telekia speciosa</i>	Yellow Oxeye	Mount Gndasar
<i>Tragopogon reticulatus</i>	-	Selim Pass
Convolvulaceae	Bindweed Family	
<i>Calystegia sepium</i>	Hedge Bindweed	Armash Fishponds
<i>Convolvulus arvensis</i>	Field Bindweed	Noravank Gorge
<i>Cuscuta epithimum</i>	Common Dodder	Near Bjni
Elaeagnaceae	Sea-buckthorn Family	
<i>Elaeagnus angustifolia</i>	Russian Olive	Roadsides
<i>Hippophae rhamnoides</i>	Sea-buckthorn	Near Lichk

Scientific Name	Common Name	Comments
Ericaceae		
<i>Rhododendron caucasicum</i>	-	Pambak Ridge
<i>Vaccinium myrtillus</i>	Bilberry	Pambak Ridge
Euphorbiaceae		
<i>Euphorbia marschalliana</i>	-	Near Bjni
<i>Euphorbia oblongata</i>	-	Pambak Ridge
Fagaceae		
<i>Fagus orientalis</i>	Oriental Beech	Parz Lich
<i>Quercus petraea</i> subsp. <i>iberica</i>	Georgian Oak	Above Byurakan
<i>Quercus macranthera</i>	Caucasian Oak	Parz Lich
Gentianaceae		
<i>Gentiana aquatica</i>	-	Pambak Ridge
<i>Gentiana pontica</i>	Pontic Gentian	Pambak Ridge
<i>Gentiana pyrenaica</i>	Pyrenean Gentian	Pambak Ridge
Geraniaceae		
<i>Geranium pyrenaicum</i>	Hedgerow Crane's-bill	Mount Gndasar
<i>Geranium robertianum</i>	Herb Robert	Parz Lich
<i>Geranium robertianum</i> var. <i>album</i>	White Herb Robert	Parz Lich
<i>Geranium tuberosum</i>	Tuberous Crane's-bill	Mount Gndasar
Hippuridaceae		
<i>Hippuris vulgaris</i>	Mare's-tail	Near Lichk
Hypericaceae		
<i>Hypericum hyssopifolium</i>	Hyssop-leaved St. John's-wort	Gnishik
<i>Hypericum perforatum</i>	Perforate St. John's-wort	Near Hatsavan
<i>Hypericum scabrum</i>	-	Gnishik
Juglandaceae		
[<i>Juglans regia</i>]	Walnut	Planted
Lamiaceae		
<i>Ajuga chia</i>	-	Above Byurakan
<i>Ajuga genevensis</i>	Blue Bugle	Parz Lich
<i>Ajuga orientalis</i>	Oriental Bugle	Above Byurakan
<i>Eremostachys molucelloides</i> (ssp. <i>macrophylla</i>)	-	Noravank Gorge
<i>Lallemantia iberica</i>	Dragon's Head	Mount Gndasar
<i>Lamium album</i>	White Deadnettle	Amberd
<i>Marrubium vulgare</i>	White Horehound	Near Bjni
<i>Nepeta betonicaefolia</i>	-	Amberd
<i>Phlomis armena</i>	-	Near Hatsavan
<i>Prunella vulgaris</i>	Selfheal	Near Bjni
<i>Salvia glutinosa</i>	Jupiter's Distaff	Haghartsin Forest (leaves)
<i>Salvia limbata</i>	-	Mount Gndasar
<i>Salvia nemorosa</i> (S. <i>staminea</i> subsp. <i>armena</i>)	-	Mount Gndasar
<i>Salvia verticillata</i>	Whorled Clary	Below Byurakan
<i>Scutellaria orientale</i>	Oriental Skullcap	Above Byurakan
<i>Sideritis montana</i>	-	Near Hatsavan

Scientific Name	Common Name	Comments
<i>Stachys balansae</i>	-	Below Byurakan
<i>Stachys sp.</i>	-	Near Hatsavan
<i>Stachys lavandulifolia</i>	Lavender-leaved Woundwort	Near Bjni
<i>Stachys recta</i>	Yellow Woundwort	Gnishik
<i>Thymus kotschyanus</i>	-	Above Byurakan
Leguminosae (Fabaceae)	Pea Family	
<i>Astragalus fragrans</i>	-	Above Byurakan
<i>Astragalus goktschiacus</i>	-	Near Bjni
<i>Astragalus maximus</i>	-	Near Hatsavan
<i>Galega officinale</i>	Goat's-rue	Roadsides
<i>Glycyrrhiza glabra</i>	Liquorice	Armash Fishponds
<i>Lathyrus miniatus</i>	-	Mount Gndasar
<i>Lathyrus pratensis</i>	Meadow Vetchling	Haghartsin Forest
<i>Lathyrus roseus</i>	-	Haghartsin Forest
<i>Medicago lupulina</i>	Black Medick	Above Byurakan
<i>Medicago sativa</i>	Lucerne	Near Lich
<i>Onobrychis cornuta</i>	-	Gnishik
<i>Onobrychis michauxii</i>	-	Near Hatsavan
<i>Onobrychis radiata</i>	-	Gnishik
<i>Securigera varia</i>	Crown Vetch	Haghartsin Forest
<i>Sophora alopecurioides</i>	Sophora	Roadsides
<i>Trifolium pratense</i>	Red Clover	Parz Lich
<i>Trifolium repens</i>	White Clover	Mount Gndasar
<i>Vicia balansae</i>	Balan's Vetch	Mount Gndasar
Linaceae	Flax Family	
<i>Linum catharticum</i>	Purging Flax	Above Byurakan
<i>Linum perenne</i> agg.	Perennial Flax	Mount Gndasar
Malvaceae	Mallow Family	
<i>Malva pusilla</i>	-	Near Hatsavan
Oleaceae	Olive Family	
<i>Fraxinus excelsior</i>	Ash	Haghartsin
Orobanchaceae	Broomrape Family	
<i>Diphelypaea (Phelypaea) tournefortii</i>	-	Amberd
<i>Orobanche caryophyllaea</i>	Clove-scented Broomrape	Mount Gndasar
<i>Pedicularis armena</i>	Armenian Lousewort	Pambak Ridge
<i>Pedicularis condensata</i>	Condensed Lousewort	Sevan Pass
<i>Pedicularis sibthorpii</i>	Sibthorp's Lousewort	Amberd junction
<i>Pedicularis wilhelmsiana</i>	Wilhelm's Lousewort	Selim Plateau
<i>Rhynchocorys orientalis</i>	-	Parz Lich
Papaveraceae	Poppy Family	
<i>Fumaria parviflora</i>	Small-flowered Fumitory	Parz Lich
<i>Fumaria vaillantii</i>	Few-flowered Fumitory	Amberd junction
<i>Glaucium elegans</i>	-	Near Hatsavan
<i>Papaver orientale</i>	-	Amberd

Scientific Name	Common Name	Comments
Plantaginaceae		
<i>Globularia trichosantha</i>	-	Above Byurakan
<i>Plantago bellardii</i>	-	Below Lake Kari
<i>Plantago lanceolata</i>	Ribwort Plantain	Near Hatsavan
<i>Plantago major</i>	Greater Plantain	Parz Lich
<i>Veronica austriaca</i>	-	Haghartsin Forest
<i>Veronica chamaedrys</i>	Germander Speedwell	Parz Lich
<i>Veronica gentianoides</i>	Gentian-like Speedwell	Below Lake Kari
<i>Veronica multifida</i>	Many-lobed Speedwell	Above Byurakan
<i>Veronica persica</i>	Common Field Speedwell	Parz Lich
<i>Veronica serpyllifolia</i>	Thyme-leaved Speedwell	Sevan Pass
Polygonaceae		
<i>Persicaria bistorta</i>	Bistort	Near Lich
<i>Polygonum cognatum</i> (<i>P. alpestre</i>)	Alpine Knotgrass	Near Lich
<i>Polygonum patulum</i>	-	Armash Fishponds
<i>Rumex acetosa</i>	Sorrel	Mount Gndasar
<i>Rumex alpinus</i>	Monk's Rhubarb	Mount Gndasar
<i>Rumex conglomeratus</i>	Clustered Dock	Parz Lich
<i>Rumex crispus</i>	Curled Dock	Parz Lich
<i>Rumex obtusifolius</i>	Broad-leaved Dock	Parz Lich
<i>Rumex scutatus</i>	French Sorrel	Near Bjni
Primulaceae		
<i>Glaux maritima</i>	Sea Milkwort	Near Lich
<i>Primula algida</i>	-	Pambak Ridge
<i>Primula auriculata</i>	a Bird's-eye Primrose	Selim Plateau
<i>Primula ruprechtii</i>	Ruprecht's Primrose	Pambak Ridge
<i>Primula veris</i> subsp. <i>macrocalyx</i>	-	Amberd junction
Ranunculaceae		
<i>Adonis annua</i>	Pheasant's-eye	Gnishik
<i>Anemone narcissiflora</i> subsp. <i>fasciculata</i>	-	Sevan Pass
<i>Caltha palustris</i> (<i>C. polypetala</i>)	Marsh Marigold	Mount Gndasar
<i>Consolida divaricata</i>	-	Near Hatsavan
<i>Consolida orientalis</i>	Oriental Larkspur	Near Hatsavan
<i>Pulsatilla albana</i>	a Pasqueflower	Below Lake Kari
<i>Ranunculus acris</i>	Meadow Buttercup	Gnishik
<i>Ranunculus arvensis</i>	Corn Buttercup	Mount Gndasar
<i>Ranunculus sceleratus</i>	Celery-leaved Buttercup	Near Lich
<i>Thalictrum minus</i>	Lesser Meadow-rue	Mount Gndasar
<i>Trollius ranunculinus</i> (<i>T. patulus</i>)	a Globeflower	Pambak Ridge
Resedaceae		
<i>Reseda lutea</i>	Mignonette	Armash Fishponds
Rhamnaceae		
<i>Rhamnus pallasii</i>	-	Near Hatsavan
Rosaceae		
<i>Alchemilla alpina</i>	Alpine Lady's-mantle	Below Lake Kari
<i>Alchemilla glabra</i>	Smooth Lady's-mantle	Mount Gndasar

Scientific Name	Common Name	Comments
<i>Alchemilla sp.</i>	a Lady's-mantle	Mount Gndasar
<i>Cotoneaster sp.</i>	-	Near Bjni
<i>Crataegus orientalis</i>	Oriental Hawthorn	Above Byurakan
<i>Fragaria vesca</i>	Wild Strawberry	Haghartsin Forest
<i>Geum urbanum</i>	Wood Avens	Parz Lich
<i>Mespilus germanica</i>	Medlar	Haghartsin Forest
<i>Potentilla crantzii</i>	Alpine Cinquefoil	Pambak Ridge
<i>Potentilla hirta</i>	Hairy Cinquefoil	Above Byurakan
<i>Potentilla recta</i>	Sulphur Cinquefoil	Haghartsin
<i>Poterum sanguisorba</i> subsp. <i>balearicum</i>	Fodder Burnet	Gnishik
<i>Prunus incana</i> (<i>P. cerasus</i>)	-	Noravank Gorge
<i>Rosa hemisphaerica</i>	a Yellow Rose	Gnishik
<i>Sibbaldia parviflora</i>	Sibbaldia	Pambak Ridge
<i>Spiraea hypericifolia</i>	-	Amberd junction
Rubiaceae	Bedstraw Family	
<i>Cruciata laevipes</i>	Crosswort	Amberd junction
<i>Galium odoratum</i>	Woodruff	Parz Lich
Salicaceae	Willow Family	
<i>Salix caprea</i>	Goat Willow	Pambak Ridge
Sapindaceae	Maple Family	
<i>Acer campestre</i>	Field Maple	Mount Gndasar
<i>Acer platanoides</i>	Norway Maple	Parz Lich
<i>Acer heldreichii</i> subsp. <i>trautvetteri</i>	Trautvetter's Maple	Sevan Pass
Scrophulariaceae	Figwort Family	
<i>Scrophularia chrysantha</i>	Golden Figwort	Amberd
<i>Scrophularia ilvensis</i>	Ilven Figwort	Selim Plateau
<i>Verbascum speciosum</i>	-	Near Hatsavan
Solanaceae	Nightshade Family	
<i>Hyoscyamus nigra</i>	Henbane	Above Byurakan
Thymelaeaceae	Mezereon Family	
<i>Daphne glomerata</i>	'-	Parz Lich
Ulmaceae	Elm family	
<i>Zelkova carpinifolia</i> (<i>Ulmus carpinifolia</i>)	Caucasian Elm	Parz Lich
Urticaceae	Nettle Family	
<i>Parietaria judaica</i>	Pellitory-of-the-Wall	Garni Temple
<i>Urtica dioica</i> subsp. <i>dioica</i>	Common Nettle	Mount Gndasar
Valerianaceae	Valerian Family	
<i>Valeriana alliariifolia</i>	-	Amberd
<i>Valeriana ovalifolia</i>	-	Amberd
Violaceae	Violet Family	
<i>Viola arvensis</i>	Field Pansy	Haghartsin

Scientific Name	Common Name	Comments
Zygophyllaceae <i>Zygophyllum fabago</i>	Zygophyllum Family Syrian Bean-caper	S of Yerevan
Monocots		
Monocotyledons		
Amaryllidaceae <i>Allium rubellum</i> <i>Allium tripedale</i> (<i>Nectaroscordum tripedale</i>)	Daffodil Family - -	Near Hatsavan Amberd
Asparagaceae <i>Asparagus verticillatus</i> <i>Leopoldia caucasica</i> (<i>Muscari caasicum</i>) <i>Muscari armeniacum</i> (<i>M. szovitsianum</i>) <i>Ornithogalum transcaucasicum</i> <i>Puschkinia scilloides</i> <i>Scilla siberica</i> subsp. <i>armena</i>	Asparagus Family - Leopoldia a Grape Hyacinth - Puschkinia Armenian Squill	Armash Fishponds Above Byurakan Mount Gndasar Above Byurakan Below Lake Kari Below Lake Kari
Colchicaeae <i>Colchicum raddeanum</i> (<i>Merendera raddeana</i>)	Colchicum Family -	Below Lake Kari
Cyperaceae <i>Carex divulsa</i> <i>Carex spicata</i> <i>Carex sylvatica</i> <i>Scirpus sylvaticus</i>	Sedge Family Grey Sedge Spiked Sedge Wood Sedge Wood Clubrush	Parz Lich Parz Lich Parz Lich Sevan Pass
Iridaceae <i>Gladiolus atrovioleaceus</i> <i>Gladiolus caucasicus</i>	Iris Family - Caucasian Gladiolus	Gnishik Mount Gndasar
Liliaceae <i>Fritillaria collina</i> <i>Gagea glacialis</i>	Lily Family - Glacier Yellow Star of Bethlehem	Pambak Ridge Below Lake Kari
Melanthiaceae <i>Veratrum lobelianum</i>	Herb-Paris Family Green False-helleborine	Sevan Pass (leaves)
Orchidaceae <i>Cephalanthera damasonium</i> <i>Cephalanthera rubra</i> <i>Coeloglossum viridis</i> <i>Corallorhiza trifida</i> <i>Dactylorhiza umbrosa</i> (<i>D. sanasunitensis</i>) <i>Dactylorhiza urvilleana</i> <i>Gymnadenia conopsea</i> subsp. <i>conopsea</i> <i>Neottia nidus-avis</i> <i>Orchis mascula</i> <i>Orchis palustris</i> <i>Platanthera bifolia</i>	Orchid Family White Helleborine Red Helleborine Frog Orchid Coralroot Orchid - - Fragrant Orchid Bird's-nest Orchid Early Purple Orchid - Lesser Butterfly Orchid	Parz Lich Parz Lich Pambak Ridge Pambak Ridge Selim Pass Parz Lich Pambak Ridge Parz Lich Haghartsin Forest Mount Gndasar Haghartsin Forest
Poaceae <i>Aegilops cylindrica</i>	Grass Family Jointed Goat-grass	Near Hatsavan

Scientific Name	Common Name	Comments
<i>Alopecurus pratensis</i>	Meadow Foxtail	Near Lich
<i>Alopecurus ovatus</i> (<i>A. alpinus</i>)	Alpine Foxtail	Below Lake Kari
<i>Cynodon dactylon</i>	Bermuda Grass	Armash Fishponds
<i>Hordeum bulbosum</i>	-	Mount Gndasar
<i>Hordeum murinum</i>	Wall Barley	Armash Fishponds
<i>Melica ciliata</i>	-	Gnishik
<i>Phragmites australis</i>	Common Reed	Armash Fishponds
<i>Poa alpina</i>	Alpine Meadow-grass	Pambak Ridge
<i>Poa bulbosa</i> var. <i>vivipara</i>	Viviparous Bulbous Meadow-grass	Above Byurakan
<i>Poa nemoralis</i>	Wood Meadow-grass	Parz Lich
<i>Puccinellia distans</i>	Reflexed Salt-marsh Grass	Armash Fishponds
<i>Taeniatherum crinitum</i>	Medusahead	Armash Fishponds
Xanthorrhoeaceae		
<i>Eremurus spectabilis</i>	Yellow Foxtail Lily	Mount Gndasar

Birds (✓=recorded but not counted; H = heard only; LO = Leader Only)

	Common name	Scientific name	June								
			3	4	5	6	7	8	9	10	11
1	Ruddy Shelduck	<i>Tadorna ferruginea</i>					✓		✓		
2	Gadwall	<i>Mareca strepera</i>			✓		✓				
3	Mallard	<i>Anas platyrhynchos</i>					✓		✓		
4	Red-crested Pochard	<i>Netta rufina</i>			✓						
5	Common Pochard	<i>Aythya ferina</i>					✓				
6	Ferruginous Duck	<i>Aythya nyroca</i>			✓						
7	Chukar Partridge	<i>Alectoris chukar</i>			✓	✓					
8	Grey Partridge	<i>Perdix perdix</i>				LO					
9	Common Quail	<i>Coturnix coturnix</i>				H		H			
10	Little Grebe	<i>Tachybaptus ruficollis</i>			H		✓				
11	Great Crested Grebe	<i>Podiceps cristatus</i>			✓		✓				
12	Greater Flamingo	<i>Phoenicopterus roseus</i>			✓						
13	White Stork	<i>Ciconia ciconia</i>			✓	✓	✓		✓		
14	Glossy Ibis	<i>Plegadis falcinellus</i>			✓		✓				
15	Little Bittern	<i>Ixobrychus minutus</i>			✓						
16	Black-crowned Night Heron	<i>Nycticorax nycticorax</i>			✓		✓				
17	Squacco Heron	<i>Ardeola ralloides</i>			✓		✓				
18	Western Cattle Egret	<i>Bubulcus ibis</i>					✓				
19	Grey Heron	<i>Ardea cinerea</i>			✓		✓				
20	Purple Heron	<i>Ardea purpurea</i>			✓						
21	Little Egret	<i>Egretta garzetta</i>		✓	✓		✓				
22	Pygmy Cormorant	<i>Microcarbo pygmeus</i>			✓		✓				
23	Bearded Vulture	<i>Gypaetus barbatus</i>		✓							
24	Griffon Vulture	<i>Gyps fulvus</i>		✓							
25	Lesser Spotted Eagle	<i>Aquila pomarina</i>						✓			
26	Booted Eagle	<i>Hieraaetus pennatus</i>							✓		
27	Golden Eagle	<i>Aquila chrysaetos</i>			✓	✓					
28	Levant Sparrowhawk	<i>Accipiter brevipes</i>				✓				✓	✓
29	Western Marsh Harrier	<i>Circus aeruginosus</i>			✓		✓				
30	Long-legged Buzzard	<i>Buteo rufinus</i>		✓		✓	✓			✓	
31	Common Buzzard	<i>Buteo buteo</i>				✓		✓	✓		

	Common name	Scientific name	June								
			3	4	5	6	7	8	9	10	11
32	Corn Crane	<i>Crex crex</i>						H			
33	Common Moorhen	<i>Gallinula chloropus</i>				✓					
34	Eurasian Coot	<i>Fulica atra</i>			✓		✓				
35	Black-winged Stilt	<i>Himantopus himantopus</i>			✓		✓				
36	Pied Avocet	<i>Recurvirostra avosetta</i>			✓						
37	Northern Lapwing	<i>Vanellus vanellus</i>			✓		✓				
38	White-tailed Lapwing	<i>Vanellus leucurus</i>			✓						
39	Common Ringed Plover	<i>Charadrius hiaticula</i>			✓						
40	Black-tailed Godwit	<i>Limosa limosa</i>			✓						
41	Common Redshank	<i>Tringa totanus</i>			✓						
42	Common Sandpiper	<i>Actitis hypoleucos</i>					✓				
43	Slender-billed Gull	<i>Chroicocephalus genei</i>			✓						
44	Black-headed Gull	<i>Chroicocephalus ridibundus</i>			✓						
45	Armenian Gull	<i>Larus armenicus</i>			✓		✓	✓	✓	✓	
46	Rock Dove [Feral]	<i>Columba livia Feral</i>		✓	✓		✓	✓	✓	✓	✓
47	Common Wood Pigeon	<i>Columba palumbus</i>				✓	✓	✓			✓
48	Common Cuckoo	<i>Cuculus canorus</i>		H	✓	✓	H	H	H	H	
49	Eurasian Scops Owl	<i>Otus scops</i>				H					
50	Alpine Swift	<i>Tachymarptis melba</i>								✓	
51	Common Swift	<i>Apus apus</i>		✓	✓	✓	✓	✓	✓	✓	✓
52	European Roller	<i>Coracias garrulus</i>			✓						✓
53	Common Kingfisher	<i>Alcedo atthis</i>			✓						
54	European Bee-eater	<i>Merops apiaster</i>		H	✓	✓	✓	H	H	✓	H
55	Eurasian Hoopoe	<i>Upupa epops</i>		✓	✓	✓	✓	✓	✓	✓	✓
56	Middle Spotted Woodpecker	<i>Dendrocoptes medius</i>						✓			
57	Syrian Woodpecker	<i>Dendrocopos syriacus</i>								✓	✓
58	Great Spotted Woodpecker	<i>Dendrocopos major</i>						✓			
59	European Green Woodpecker	<i>Picus viridis</i>			H		✓				
60	Common Kestrel	<i>Falco tinnunculus</i>	M	✓	✓	✓					✓
61	Red-backed Shrike	<i>Lanius collurio</i>		✓		✓	✓	✓	✓	✓	
62	Lesser Grey Shrike	<i>Lanius minor</i>		✓	✓						
63	Eurasian Golden Oriole	<i>Oriolus oriolus</i>			H	H	H				
64	Eurasian Jay	<i>Garrulus glandarius</i>				✓		✓	✓		
65	Eurasian Magpie	<i>Pica pica</i>		✓	✓	✓	✓	✓	✓	✓	✓
66	Red-billed Chough	<i>Pyrrhocorax pyrrhocorax</i>		✓	✓	✓				✓	
67	Western Jackdaw	<i>Coloeus monedula</i>		✓	✓				✓	✓	
68	Rook	<i>Corvus frugilegus</i>		H							
69	Hooded Crow	<i>Corvus cornix</i>		✓	✓	✓	✓	✓	✓	✓	✓
70	Northern Raven	<i>Corvus corax</i>		✓	✓	✓		✓	✓		
71	Coal Tit	<i>Parus ater</i>						✓			
72	Eurasian Blue Tit	<i>Cyanistes caeruleus</i>						✓			
73	Great Tit	<i>Parus major</i>						✓	✓	✓	✓
74	Eurasian Penduline Tit	<i>Remiz pendulinus</i>			✓						
75	Bearded Reedling	<i>Panurus biarmicus</i>			✓						
76	Woodlark	<i>Lullula arborea</i>		✓		✓					
77	Eurasian Skylark	<i>Alauda arvensis</i>		✓		✓	✓	H	✓	H	
78	Crested Lark	<i>Galerida cristata</i>		✓						✓	
79	Horned Lark	<i>Eremophila alpestris pencillata</i>		✓							
80	Sand Martin	<i>Riparia riparia</i>		✓	✓		✓				
81	Barn Swallow	<i>Hirundo rustica</i>		✓	✓	✓	✓	✓	✓	✓	

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82	Eurasian Crag Martin	<i>Ptyonoprogne rupestris</i>		✓	✓	✓	✓	✓	✓		
83	Common House Martin	<i>Delichon urbicum</i>		✓	✓	✓	✓	✓	✓	✓	
84	Cetti's Warbler	<i>Cettia cetti</i>		H	H	✓	H	H	H		
85	Long-tailed Tit	<i>Aegithalos caudatus major</i>									
86	Mountain Chiffchaff	<i>Phylloscopus sindianus</i>					H	H	✓		
87	Green Warbler	<i>Phylloscopus nitidus</i>						✓			
88	Great Reed Warbler	<i>Acrocephalus arundinaceous</i>			✓	H	H				
89	Eurasian Reed Warbler	<i>Acrocephalus scirpaceus</i>			✓		✓				
90	Marsh Warbler	<i>Acrocephalus palustris</i>						✓			
91	Upcher's Warbler	<i>Hippolais languida</i>								✓	
92	Eurasian Blackcap	<i>Sylvia atricapilla</i>		H							
93	Common Whitethroat	<i>Sylvia communis</i>		✓		✓	✓	✓	✓	✓	✓
94	Menetries's Warbler	<i>Sylvia mystacea</i>			✓						
95	Eurasian Wren	<i>Troglodytes troglodytes</i>		H				H	H		
96	Eurasian Nuthatch	<i>Sitta europaea</i>						✓			
97	Western Rock Nuthatch	<i>Sitta neumayer</i>		✓	✓					✓	
98	Eastern Rock Nuthatch	<i>Sitta tephronota</i>			✓						
99	Eurasian Treecreeper	<i>Certhia familiaris</i>						✓			
100	Rosy Starling	<i>Pastor roseus</i>		✓	✓				✓	✓	✓
101	Common Starling	<i>Sturnus vulgaris</i>					✓		✓		
102	Ring Ouzel	<i>Turdus torquatus</i>		✓		✓					
103	Common Blackbird	<i>Turdus merula</i>		✓		✓	✓	✓	✓	✓	✓
104	Song Thrush	<i>Turdus philomelos</i>						H			
105	Mistle Thrush	<i>Turdus viscivorus</i>							✓		
106	Rufous-tailed Scrub Robin	<i>Erythropygia galactotes syriaca</i>								✓	
107	Spotted Flycatcher	<i>Muscicapa striata</i>						✓			
108	European Robin	<i>Erithacus rubecula</i>						✓			
109	Bluethroat	<i>Luscinia svecica</i>					✓				
110	Common Nightingale	<i>Luscinia megarhynchos</i>			H	H					H
111	White-throated Robin	<i>Irania gutturalis</i>			✓					✓	
112	Red-breasted Flycatcher	<i>Ficedula parva</i>						✓			
113	Black Redstart	<i>Phoenicurus ochruros semirufus</i>		✓							
114	Common Redstart	<i>Phoenicurus p. samamisticus</i>					✓	✓	✓	✓	
115	Common Rock Thrush	<i>Monticola saxatilis</i>		✓			✓	✓		✓	
116	Blue Rock Thrush	<i>Monticola solitarius</i>			LO						
117	Whinchat	<i>Saxicola rubetra</i>		✓		✓	✓	✓	✓		
118	Northern Wheatear	<i>Oenanthe oenanthe</i>		✓	✓	✓	✓		✓		
119	Isabelline Wheatear	<i>Oenanthe isabellina</i>								✓	
120	Black-eared Wheatear	<i>Oenanthe hispanica</i>		✓	✓	✓	✓			✓	
121	Finsch's Wheatear	<i>Oenanthe finschii</i>								✓	
122	White-throated Dipper	<i>Cinclus cinclus</i>					✓				
123	House Sparrow	<i>Passer domesticus</i>		✓	✓	✓	✓	✓	✓	✓	✓
124	Eurasian Tree Sparrow	<i>Passer montanus</i>			✓						
125	Pale Rockfinch	<i>Carpospiza brachydactyla</i>								✓	
126	Rock Sparrow	<i>Petronia petronia</i>					✓				
127	White-winged Snowfinch	<i>Montifringilla nivalis</i>		✓							
128	Alpine Accentor	<i>Prunella collaris</i>		✓							
129	Radde's Accentor	<i>Prunella ocularis</i>		✓							
130	Dunnock	<i>Prunella modularis</i>						✓			
131	Western Yellow Wagtail	<i>Motacilla flava feldegg</i>			✓		✓				

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132	Grey Wagtail	<i>Motacilla cinerea</i>				✓			✓		
133	White Wagtail	<i>Motacilla alba</i>		✓	✓	✓	✓	✓	✓	✓	✓
134	Tawny Pipit	<i>Anthus campestris</i>		✓						H	H
135	Tree Pipit	<i>Anthus trivialis</i>				H	H	✓			
136	Water Pipit	<i>Anthus spinoletta</i>		✓			H	H	✓		
137	Common Chaffinch	<i>Fringilla coelebs</i>				H		✓			
138	Hawfinch	<i>Coccothraustes coccothraustes</i>						✓			
139	Common Rosefinch	<i>Carpodacus erythrinus</i>					✓	✓	✓		
140	European Greenfinch	<i>Chloris chloris</i>						✓	✓		
141	Common Linnet	<i>Linaria cannabina</i>		✓	✓	✓	✓		✓	✓	
142	European Goldfinch	<i>Carduelis carduelis</i>			✓	✓	✓	✓		✓	
143	Red-fronted Serin	<i>Serinus pusillus</i>				✓					
144	Corn Bunting	<i>Emberiza calandra</i>		✓		✓	✓	✓	✓	✓	
145	Rock Bunting	<i>Emberiza cia</i>				✓			✓		
146	Ortolan Bunting	<i>Emberiza hortulana</i>		✓		✓	✓		✓		
147	Black-headed Bunting	<i>Emberiza melanocephala</i>		✓	✓	✓				✓	

Mammals

1	Red Fox	<i>Vulpes vulpes</i>					✓				
2	Caucasian Brown Bear	<i>Ursus arctos caucasicus</i>				✓					
3	Weasel	<i>Mustela nivalis</i>					✓				
4	Bezoar's Goat	<i>Capra aegagrus aegagrus</i>				✓					
5	Persian Squirrel	<i>Sciurus anomalus</i>						✓			

Amphibians & Reptiles

1	Levant Water Frog	<i>Pelophylax bedriagae</i>			✓	H	H		H		
2	Eastern Green Lizard	<i>Lacerta viridis</i>		✓		✓					
3	Caspian Green Lizard	<i>Lacerta strigata</i>									✓
4	Armenian Rock Lizard	<i>Darevskia armeniaca</i>		✓		✓		✓		✓	✓

Butterflies

1	Swallowtail	<i>Papilio machaon syriacus</i>									✓
2	Scarce Swallowtail	<i>Iphiclides podalirius persica</i>		✓		✓					✓
3	Clouded Apollo	<i>Parnassius mnemosyne nubilosus</i>		✓		✓					
4	Black-veined White	<i>Aporia crataegi iranica</i>				✓					✓
5	Large White	<i>Pieris brassicae</i>		✓	✓			✓	✓	✓	✓
6	Small White	<i>Pieris rapae transcaucasica</i>		✓	✓	✓	✓	✓	✓	✓	✓
7	Bath White	<i>Pontia edusa edusa</i>			✓						✓
8	Orange Tip	<i>Anthocharis cardamines</i>				✓	✓	✓			
9	Eastern Dappled White	<i>Euchloe ausonia taurica</i>				✓					
10	Clouded Yellow	<i>Colias crocea</i>				✓	✓	✓	✓	✓	
11	Berger's Clouded Yellow	<i>Colias alfacariensis fontainei</i>		✓		✓		✓			
12	Brimstone	<i>Gonepteryx rhamni miljanowskii</i>		✓		✓					
13	Powdered Brimstone	<i>Gonepteryx farinosa turcirana</i>									✓
14	Eastern Wood White	<i>Leptidea duponcheli maiae</i>				✓	✓	✓	✓		
15	White-letter hairstreak	<i>Callophrys w-album</i>									✓
16	Small Blue	<i>Cupido minimus</i>				✓		✓			
17	Holly Blue	<i>Celastrina argiolas</i>									✓
18	Green-underside Blue	<i>Glaucopsyche alexis lugens</i>		✓		✓					

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19	Silver-studded Blue	<i>Plebejus argus bellus</i>			✓						
20	Eastern Brown Argus	<i>Plebejus (Kretania) eurypilus</i>				✓					
21	Brown Argus	<i>Aricia agrestis azerbaijdzana</i>				✓				✓	
22	Chapman's Blue	<i>Agrodiaetus thersites ketshevana</i>							✓		
23	Adonis Blue	<i>Polymmatus (Lysandra) bellargus</i>		✓	✓	✓	✓		✓		
24	Common Blue	<i>Polyommatus icarus</i>		✓	✓	✓	✓	✓	✓	✓	✓
25	Eastern Mazarine Blue	<i>Polyommatus semiargus bellis</i>								✓	
26	Southern White Admiral	<i>Limenitis reducta mirzajani</i>									✓
27	Common Glider	<i>Neptis sappho</i>							✓		✓
28	Large Tortoiseshell	<i>Nymphalis polychloros</i>									✓
29	Red Admiral	<i>Vanessa atalanta</i>		✓							
30	Painted Lady	<i>Vanessa cardui</i>		✓			✓	✓			
31	Small Tortoiseshell	<i>Aglais urticae turcica</i>		✓	✓	✓	✓		✓	✓	
32	Comma Butterfly	<i>Polygonia c-album</i>						✓			
33	Cardinal Fritillary	<i>Argynnis pandora</i>		✓		✓				✓	✓
34	Queen of Spain Fritillary	<i>Issoria lathonia</i>				✓	✓	✓	✓		✓
35	Pearl-bordered Fritillary	<i>Boloria euphrosyne dagestanica</i>						✓			
36	Glanville Fritillary	<i>Melitaea cinxia</i>		✓		✓			✓		
37	Spotted Fritillary	<i>Melitaea didyma transcaucasica</i>		✓		✓					
38	a Marsh Fritillary 'type'	<i>Eurodryas provincialis</i>		✓							
39	Marbled White	<i>Maelanargia larissa astanda</i>									✓
40	Woodland Ringlet	<i>Erebia medusa psodea</i>						✓	✓	✓	
41	'Eastern' Meadow Brown	<i>Maniola jurtina strandiana</i>									✓
42	Large Wall Brown	<i>Lasiommata maera orientalis</i>				✓					
43	Obethur's Grizzled Skipper	<i>Pyrgus armoricanus persicus</i>		✓		✓					
44	Dingy Skipper	<i>Erynnis tages unicolor</i>				✓		✓	✓		
45	Essex Skipper	<i>Thymelicus lineola</i>									✓
46	Southern Small Skipper	<i>Thymelicus sylvestris syriaca</i>									✓
47	Large Skipper	<i>Ochlodes sylvianus</i>									✓

Micros Moths

1	Nettle Tap	<i>Anthophila fabricana</i>						✓			
2	Pyralid	<i>Synaphe moldavica</i>			✓						
3	Crambid	<i>Sitochroa verticalis</i>		✓							

Macros Moths (C = caterpillar)

1	a Burnet	<i>Zygaena cuvieri</i>									✓
2	Lackey	<i>Malacosoma neustria</i>				C					
3	Franconian Lackey	<i>Malacosoma franconicum</i>		C							
4	Geometrid	<i>Lithyria cruentaria</i>			✓						
5	Chimney Sweeper	<i>Odezia atrata</i>				✓					
6	Speckled Yellow	<i>Pseudopanthera macularia</i>				✓		✓	✓		
7	Black-veined Moth	<i>Siona lineata</i>				✓		✓	✓		
8	Humming-bird Hawk-moth	<i>Macroglossum stellatarum</i>			✓	✓			✓	✓	✓
9	Nine-spotted	<i>Amata phegea</i>			✓				✓		
10	Mother Shipton	<i>Callystege mi</i>						✓			
11	Burnet Companion	<i>Euclidia glyphica</i>				✓	✓	✓	✓		
12	Four Spotted	<i>Tyta luctuosa</i>				✓			✓		

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Other Invertebrates

1	Banded Demoiselle	<i>Calpteryx splendens</i>			✓						
2	Azure Bluet	<i>Coenagrion puella</i>			✓						
3	Common Blue-tail	<i>Ischnura elegans</i>			✓		✓				
4	Large Red-eye Damselfly	<i>Erythromma najas</i>			✓						
5	Lesser Emperor	<i>Anax parthenope</i>			✓						
6	Black-tailed Skimmer	<i>Orthetrum cancellatum</i>			✓						
7	Red-veined Darter	<i>Sympetrum fonscolombii</i>			✓						
8	Nose Grasshopper	<i>Acrida ungarica</i>			✓						✓
9	Groundhopper	<i>Tetrigidae sp.</i>		✓							
10	Roesel's Bush-cricket	<i>Metrioptera roeselii</i>								✓	
11	Field Cricket	<i>Gryllus campestris</i>				H					
12	Pied Shield Bug	<i>Sehirus bicolor</i>						✓			
13	Shield Bug	<i>Eurydema dominulus</i>			✓						
14	Shield Bug	<i>Graphosoma lineatum</i>				✓	✓				
15	Forest Bug	<i>Pentatoma rufipes</i>				✓					
16	Fire Bug	<i>Pyrrhocoris apterus</i>						✓			✓
17	Froghopper (Red & Black)	<i>Cercopis vulnerata</i>						✓			
18	Ant-lion	<i>Nemoptera nitida</i>									✓
19	Scorpion Fly	<i>Panorpa sp.</i>		✓				✓			
20	Bee-fly	<i>Bombylius sp.</i>		✓		✓	✓			✓	
21	Robber-fly	<i>Asilidae sp.</i>				✓					
22	Hover-fly sp.	<i>Syrphus sp.</i>		✓							
23	Hornet	<i>Vespa crabro</i>									✓
24	European Paper Wasp	<i>Polistes gallicus</i>				✓					✓
25	Armenian Bumblebee	<i>Bombus armeniacus</i>				✓				✓	✓
26	Carpenter Bee	<i>Xylocopa sp.</i>				✓	✓			✓	
27	Common Carder Bee	<i>Bombus pascuorum</i>						✓			
28	Honey Bee	<i>Apis mellifera</i>		✓		✓	✓	✓	✓	✓	✓
29	Dung Beetle sp.	<i>Scarabid sp.</i>		✓						✓	
30	Garden Chafer	<i>Phyllopertha horticola</i>		✓							
31	Pollen Chafer	<i>Tropinota squalida</i>		✓		✓			✓	✓	
32	Pollen Chafer	<i>Oxythyrea funesta</i>		✓							✓
33	Soldier Beetle	<i>Cantharis rustica</i>					✓			✓	
34	Cardinal Beetle	<i>Pyrochroa coccinea</i>						✓			
35	Seven-spot Ladybird	<i>Coccinella 7-punctata</i>		✓	✓		✓	✓		✓	
36	Churchyard Beetle	<i>Blaps mucronata</i>							✓		
37	Longhorn Beetle	<i>Dorcadion c.f. obenbergeri</i>					✓	✓			
38	Longhorn Beetle	<i>Dorcadion pedestre</i>		✓							
39	Sheep Tick	<i>Ixodes ricinus</i>						✓	✓	✓	
40	Crab Spider	<i>Thomisidae sp.</i>						✓			

Molluscs

1	Roman Snail	<i>Helix pomatia</i>					LO				
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