## **Armenia - Spring Birds and Flowers**

## Naturetrek Tour Report

2 - 10 June 2018



Armenian Gull - Tony Wardell



Dianthus calocephalus - Geoff Carss



Bezoar's Goat - Geoff Carss



Black-headed Bunting - Tony Wardell

Report by Paul Harmes Images by Geoff Carss & Tony Wardell



Mingledown Barn

Naturetrek

Wolf's Lane

Chawton

Alton

Hampshire

**GU34 3HJ** 

UK

T: +44 (0)1962 733051

Tour Participants: Paul Harmes & Anush Khachadryan(Leaders) with six Naturetrek client

Edik (Driver) & Armine (local agent)

### Day 1

## Saturday 2nd June

#### Fly Heathrow to Moscow & Yerevan

Six group members met with Paul at Heathrow Terminal 4 for the Aeroflot Flight SU2571 to Moscow Sheremetyevo Airport, where we saw a Common Kestrel before we transferred to Aeroflot flight SU1862 to Yerevan. We arrived at Yerevan Zvartsnots Airport where, after changing money and collecting our luggage, we met with Anush, our local leader, and Edik, our driver for the week. Around the airport there were good numbers of Common Swift together with Magpie, and Common Starling.

We transferred to our bus for the short journey through the Armenian capital to the Hrazdan Hotel, our base for the first two nights of the tour. After rooms had been allocated, we took a late dinner, and retired for the night.

## Day 2

2

## Sunday 3rd June

#### Mount Aragats & Amberd

At 9am, following breakfast, we left the hotel and were on our way north-westwards towards Mount Aragats. Along the way we saw Rosy Starling, Magpie and numerous Common Swifts. Our first stop today was in an area of degraded steppe, just off the main road at the junction to Byurakan. Marbled White [astanda], Clouded Yellow, Small White [transcaucasica] and Small Heath [marginata] butterflies were very active. It was not long until Black-eared and Isabelline Wheatears were spotted, together with Rufous-tailed Scrub Robin, European Roller, Hoopoe, Bimaculated Lark and Common Buzzard. For the botanists there were Capparis spinosa (Caper), Helichrysum armenium, Sophora alopecurioides (Sophora), Acantholimon armenum, Dianthus crinitus, Xeranthemum squarosum and Sideritis montana.

Moving upwards, our second stop was made in another area of semi-degraded steppe above Byurakan. Here the botanists had Onosma sericeum (a Golden Drops), Thymus kotschyanus, Anacamptis coriophora (Bug Orchid), Cruprina vulgaris, Veronica multifida (Many-lobed Speedwell), Ornithogalum hajastanum (a Star-of-Bethlehem) and Cerinthe minor (Lesser Honeywort), whilst the birders recorded Crested Lark, Western Rock Nuthatch, Northern Wheatear, Black-headed and Ortolan Bunting. Butterflies included Cardinal Fritillary, Large White, Amanda's Blue, Spotted Fritillary [transcaucasica] and Adonis Blue. As we moved a little higher, we passed Quercus petraea subsp. iberica (Georgian Oak) and Viburnum lantana (Wayfaring Tree). We made a third stop as we ascended into the foothills, where a 30-minute pause in an area of mountain steppe produced views of Red-backed Shrike, Blue Rock Thrush, Common Rock Thrush and Bluethroat. For the plants, we added Ornithogalum transcaucasicum (a Star-of-Bethlehem), Ajuga orientale (Oriental Bugle), Muscari armeniacum (Armenian Grape Hyacinth), Pedicularis sibthorpii (Sibthorp's Lousewort) Primula veris subsp. macrocalyx (a Cowslip) and the beautiful Veronica gentianoides (Gentian-like Speedwell).

We now made the 10-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, and Cuckoo was heard. Around our feet there was *Leopoldia caucasica* (Leopoldia), *Tanacetum aureum* (a Tansy), *Orchis palustris*, and *Eremogone gypsophiloides*.

A brief stop on a roadside, in search of White-throated Robin, produced some first-class views of an adult Common Rock Thrush, and a fledged chick demanding food.

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), *Primula algida* (a Primrose), *Draba bryoides* (Mossy Whitlow-grass) and *Androsace intermedia* (a Rock-jasmine). Birds included Horned Lark, Water Pipit, Black Redstart and we also had great views of Bearded Vulture.

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

Day 3 Monday 4th 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 Hooded Crows, Hoopoe and Magpie were seen along the way.

On arrival at the Armash Fishponds Black-crowned Night Heron was the first record made, followed by Pigmy Cormorant, Great Reed Warbler and Bearded Reedling. 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, Glossy Ibis and Purple Heron, which all showed well. Setting off from the bus, we walked the track beside two large ponds. In the marginal reeds, Bearded Reedling, Eurasian 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 Black-headed Yellow Wagtails and a pair of White-tailed Lapwing. 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 Lesser Emperor Dragonfly and Common Blue-tail, Azure Bluet and Common Blue Damselflies.

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 Western Marsh Harrier, Little Egret, Eurasian Spoonbill, White Stork, Northern Lapwing, Common Kingfisher and numerous Cuckoos. Under the shade of a solitary *Elaeagnus angustifolia* (Russian Olive), we took our picnic lunch, during which we had further 'fly-bys' by Cuckoos. After eating, it was time to move on. Having left the fish ponds, we stopped for ice creams before continuing our journey eastwards through Sevakanan, on our way north. Along the way, we stopped to

admire and photograph a magnificent field of Poppies, interspersed with *Crambe orientalis*, *Melilotus altissimus* (Tall Melilot), *Adonis annua* (Pheasant's-eye), *Cyanus triumfettii* and *Turgenia latifolia*.

Our next stop was at the head of the Noravank Gorge, where we parked up at the area around the ancient churches. Here we found a pair of Eastern Rock Nuthatch, Crag Martin and Black-eared Wheatear. The rocky slopes had a good show of *Eremostachys molucelloides* and *Pistacia atlantica* (Mount Atlas Mastic Tree). We also had excellent views of a solitary Bezoar's Goat.

A second stop further back down the gorge gave us a great view of 'puddling' butterflies. Among the species present were Common Blue, Niobe Fritillary, Nettle-tree, Adonis Blue, Amanda's Blue, Eastern Brown Argus, Green-underside Blue, Eastern Mazarine Blue, Large Grizzled Skipper and Yellow-banded Skipper.

From here, it was only about 10 kilometres to our Homestay accommodation in Yeghednazor, where we arrived around 5pm, to be met by Gohar, our hostess.

## Day 4

4

## **Tuesday 5th 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 Yelpin, 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, hearing Cetti's Warbler, and recording Corn Bunting as we climbed. We stopped below a high cliff face and began scanning for Caspian Snowcock, but these elusive birds remained hidden. However, we did see Black-headed Bunting, Common Buzzard and Bearded Vulture. At this point, we had the first of three distant views of Caspian Snowcock, and all group members manage to see the birds. Plants seen included Eremurus spectabilis (Yellow Foxtail Lily), Orchis palustris and Lallemantia iberica (Dragon's Head). Before leaving, we also added Ortolan Bunting, Rock Bunting, Red-backed Shrike and heard Common Rosefinch.

We now started to retrace our route downwards, as it came on to rain. Along the way we stopped a couple of times and walked, finding *Eremogone dianthoides* (a Sandwort), *Geranium tuberosum* (Tuberous Crane's-bill), *Eremogone gypsophiloides, Dianthus calocephalus* (a Pink), *Lathyrus miniatus* (a red Pea) *Diphelypaea tournefortii*, and *Silene spergulifolia* (a Catchfly). For the birders, there were Lesser Grey Shrike, House Martin, Common Whitethroat, Honey Buzzard and numerous Common Swifts. It was now time to make our way back to our guesthouse for lunch.

On 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. Common Quail was heard, and Black-headed Bunting, Common Whitethroat, Pied Wheatear, Barn Swallow and a distant Long-legged Buzzard were all seen by 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 Milfoil), Rosa hemispherica, Hypericum scabrum (a St. John's-wort), and Onobrychis transcaucasica. Lower down, Black-eared Wheatear and a group of three Eastern Rock Nuthatches were added. In the warm afternoon sun, butterflies included Black-veined White, Common Blue, Cardinal Fritillary, Brown Argus, Osiris Blue, Amanda's Blue, Eastern Wood White and Clouded Yellow. It was then time to return to Yeghednadzor to freshen up before going out to dinner.

#### Day 5

## Wednesday 6th 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, where we explored a wide, rocky verge. Here we noted a pair of Red-billed Chough, Great Tit, Common Kestrel and a fine pair of Rock Sparrows. Butterflies included Wall Brown, Osiris Blue, Common Blue, both male and female Spotted Fritillary and Eastern Knapweed Fritillary. For the plants there was *Stachys lavandulifolia* (Lavender-leaved Woundwort), *Aethionema grandiflorum* (a Burnt Candytuft) and *Papaver persica* (Persian Poppy).

A second stop was made at the Caravanserai, the resting place of travellers on the Silk Road in medieval times. While here we found Hoopoe, Whinchat, Crag Martin and Common Rosefinch, together with Short-toed Snake Eagle. 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).

Moving on, we soon reached the wide Selim Plateau, an extensive area of wet meadows and streams which produced *Pedicularis sibthorpii* (Sibthorp's 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 were Common Rosefinch, Whinchat, Corn Bunting, Bluethroat, Black-headed Yellow Wagtail, 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, Reed Warbler and Common Chiffchaff, whilst watching Hoopoes visiting their nest in an adjacent building. After lunch we set off towards a small lake. As we progressed, we passed a large colony of Sand Martins in a sandy bank. Splendid views were also had of Marsh Warbler. As we moved towards a small lake and reed bed, we saw *Lappula squarrosa* (Bur Forget-me-not), *Cynoglossum officinale* (Common Hound's-tongue), *Nonea armeniaca* and *Buglossoides arvensis* (Corn Gromwell). The lake produced Little Grebe, Western Marsh Harrier, Grey Heron, Black-necked Grebe, Little Egret, Ruddy Shelduck and Gadwall. As were retraced our steps, we added Rosy Starling.

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 7th June** 

Parz Lich Forest - Haghartsin Forest & the Sevan Pass

An early bird walk, around the hotel grounds, produced Robin, Chaffinch and Great Spotted Woodpecker.

After breakfast at 8am, we were ready to leave by 9am for the 25-minute drive to the lake and an area of broadleaf woodland at Parz Lich. We were on the track of Semi-collared Flycatcher, at a known nest-site, but, unfortunately, the chicks had fledged, and we did not manage to find them. However, we did see Clouded Yellow butterfly and the curious Bee Beetle. Moving back into the forest, we next stopped at some meadows in the forest, that were very floriferous. The woodland comprised Fagus orientalis (Oriental Beech), Quercus macranthera (Caucasian Oak), Carpinus betulus (Hornbeam) and Corylus avellana (Hazel). In the meadow we found Platanthera chlorantha (Greater Butterfly Orchid), Anacamptis coriophora (Bug Orchid) and Dactylorhiza euxina. Inside the woodland margins we also found Dactylorhiza urvilleana, Astrantia maxima (Greatest Masterwort). Eastern Mazarine Blue and Common Blue butterflies were noted, together with Black-vein Moth, Burnet Companion, Silver-Y and Golden-yellow Wave moths. For the birders there was Common Chiffchaff, Great Tit and Song Thrush was heard.

Moving on, we made the short journey to the wooded valley of Haghartsin, where we spent a short time visiting the church. Plants by the roadside included *Rhynchocorys orientalis, Gypsophila elegans* (Gypsophila), *Chelidonium majus* (Greater Celandine) and *Heracleum mantagazzianum* (Giant Hogweed).

We now moved into the forest to have our picnic lunch, in one of the numerous shelters, whereupon it began to rain quite heavily. Bird sightings included Common Redstart, Nuthatch, Chaffinch and another singing Song Thrush. The botanists added *Euphrasia caucasica* (Caucasian Eye-bright), *Astragalus glycyphyllos* (Wild Liquorice), *Galium odoratum* (Woodruff) and the leaves of *Salvia glutinosa* (Jupiter's Distaff).

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, as the rain began to fall once more. The wonderful meadows produced Anemone narcissiflora subsp. fasciculata, Veronica gentianoides (Gentian-like Speedwell), Pyrethrum coccineum, Doronicum macrophyllum (a Leopard's-bane) and Pedicularis condensata (Condensed Lousewort). Here, we also recorded Large White; the birders had Lesser Spotted Eagle, Long-legged Buzzard, Corn Bunting and Common Rosefinch, and they heard Common Quail and Corncrake. A second stop on a sunny bank added Pearl-bordered Fritillary, Woodland Ringlet and the Marsh Fritillary-type Euphydryas provincialis. We also added the endemic Acer heldreichii subsp. trautvetteri (Trautvetter's Maple) and the stunning Lilium armenum (Armenian Lily). Meanwhile, the birders had managed to find a Mountain Chiffchaff, which gave fleeting views to some group members.

We now returned to the hotel in time for dinner.

Day 7 Friday 8th June

#### Pambak Mountain Ridge - Travel to Yeravan

All group members joined Anosh and Paul on an early morning excursion to try to see Caucasian Grouse. We left the hotel, 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, about .2,600 metres above sea level, in clear skies, after heavy overnight rain. We soon began scanning the grassy, boulder-strewn mountainside for the Caucasian Grouse, initially without success. However, Common Rosefinch, Water Pipit, and Wren, were found. For the botanists, the highlights were *Rhododendron caucasicum* (Caucasian Rhododendron), *Fritillaria collina*, *Trollius ranunculinus* (a Globeflower) and *Primula ruprechtii* (Ruprecht's Primrose). At this point Anosh found a solitary Grouse, on the distant horizon, of which all the group managed a good scoped view. After eating our breakfast, we re-joined the vehicles and continued to the top of the pass, which was rather spectacular in the morning sunshine. Here we added *Gentiana pontica* (Pontic Gentian), *Gentiana pyrenaica* (Pyrenean Gentian), *Pedicularis armena* (Armenian Lousewort) and *Primula algida* (a Primrose), and many more. We also added Armenian Gull, Northern Wheatear and Raven.

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 the orchids, *Corallorhiza trifida* (Coralroot Orchid), *Platanthera chlorantha* (Greater Butterfly Orchid and *Gymnadenia conopsea* (Fragrant Orchid). We made our way back to Dilijan to collect our luggage and started the journey back to Yerevan.

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 views were had by all. We also recorded Great Crested Grebe, Cattle Egret, Black-crowned Night Heron, Little Egret, Great Cormorant, Glossy Ibis, Ruddy Shelduck and, curiously, a pair of Lesser White-fronted Geese..

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

#### Day 8

## Saturday 9th June

#### Near Hatsavan - Garni

After breakfast, we set off south-eastwards towards Garni, tuning right after about 40 minutes, in the direction of Artashat, in the vicinity of Hatsavan. We stopped in an area of semi-desert in the direction of the Azet Reservoir. As we approached our destination, several Crested Larks were seen by the road. We left our vehicle to explore the track alongside a fruit tree plantation. Here we came upon a good number of *Centaurea moschata* (Sweet Sultan), *Onopordum armenum* (Armenian Cotton Thistle), *Capparis spinosa* (Caper), *Glaucium elegans*, *Lappula squarrosa* (Bur Forget-me-not), *Senecio caucasica* (Caucasian Ragwort) and *Salvia hydrangea*. Meanwhile, the birders found Isabelline Wheatear, White-throated Robin, European Beeeaters, Black-headed Bunting and Finsch's Wheatear, as well. Butterflies included Mallow Skipper, Cardinal Fritillary, Common Blue, Eastern Marbled White and Bath White.

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 Common Kestrel, Alpine Swift, Common House Martin, Red-billed Chough and had splendid views if an Egyptian Vulture. In addition, there were Nettle-tree, Southern Comma and Cardinal Fritillary butterflies.

We now began to make the return journey to Yerevan. Along the way we stopped in some dry scrub, and recorded Black-headed Bunting and Northern Wheatear, as well as *Chardinia macrocarpa* (now thought to be the same as *C. orientalis*), *Cirsium congestum* (Congested Thistle), *Phlomis pungens* and *Helichrysum armenium* (Armenian Everlasting). It was now time to make our way back to Yeravan.

Dinner tonight was in another restaurant, not too far from our hotel.

Day 9

**Sunday 10th June** 

Yeravan 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 Nightingale, and saw Whitethroat, Lesser Whitethroat, Hooded Crow, Hoopoe, and Levant Sparrowhawk. There were also some new butterflies, including the Eastern form of Meadow Brown, Red Admiral and Holly Blue. At 11.30am we returned to the hotel to collect our luggage, 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 Anush. 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 (\* = a plant is endemic)

Please Note: 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 Location

PTERIDOPHYTES FERNS & ALLIES

Leptosporangiate Ferns True Ferns

Athyriaceae Lady-fern Family

Athyrium filix-femina Lady-fern Pambak Ridge

Cystopteridaceae Bladder-fern Family

Cystopteris fragilis Brittle Bladder-fern Pambak Ridge

GYMNOSPERMS CONIFERS

Cupressaceae Juniper Family

Juniperus depressus a Juniper Aragats - Amberd junction

PinaceaePine FamilyPinus sylvestris var. hamata (P.Koch's Pine

kochiana) Sevan Pass

ANGIOSPERMS FLOWERING PLANTS

Eu-Dicots True Dicotyledons

Adoxaceae Moschatel Family

Sambucus ebulusDanewortParz LichSambucus nigraElderberryParz Lich

Viburnum lantana Wayfaring Tree Aragats - Above Byurakan

Amaranthaceae Goosefoot Family

Atriplex patulaCommon OracheYeghegnadzorChenopodium glaucumOak-leaved GoosefootArmash FishpondsSalsola dendroides-Armash FishpondsSalsola glauca-Armash Fishponds

Suaeda maritima Sea-blite Armash Fishponds

Anarcardiaceae Sumach Family

Pistacia atlantica (P. mutica) Mount Atlas Mastic Tree Noravank Gorge

Apiaceae Carrot Family

Anthriscus sylvestris Cow Parsley Yerevan
Astrantia maxima Greatest Masterwort Parz Lich

Bupleurum gracile - Aragats - Above Byurakan

Chamaesciadium acaule - Pambak Ridge

Heracleum mantegazzianum Giant Hogweed Mount Gndasar

Scientific name Common name Location

Sanicula europaea Sanicle Parz Lich

Turgenia latifolia - W of Yeghegnadzor

Apocynaceae Periwinkle Family

Cynanchum acutum Dog-strangler Vine Armash Fishponds

Berberidaceae Barberry Family

Berberis caucasicus\* Caucasian Barberry Mount Gndasar

Betulaceae Birch Family

Carpinus betulus (C. caucasicus) Hornbeam Parz Lich
Corvlus avellana Hazel Parz Lich

Corylus avellana Hazel Parz Lich

Boraginaceae Borage Family

Alkanna orientalisYellow AlkanetNear Hatsevan - ArtashatAnchusa arvensisBuglossNear Hatsevan - Artashat

Anchusa azurea Large Blue Alkanet W of Yeghegnadzor

Buglossoides arvensis (Lithospermum Corn Gromwell

 arvense)
 Aragats - Above Byurakan

 Cerinthe minor
 Lesser Honeywort
 Aragats - Above Byurakan

Cynoglossum officinale Hound's-tongue Lichk

Echium biebersteinii Bieberstein's Bugloss Aragats - S of Byurakan

Echium vulgare Viper's-bugloss Aragats - Above Byurakan Lappula squarrosa Bur Forget-me-not Lichk

Myosotis alpestris Alpine Forget-me-not Aragats - Lake Kari

Nonea armeniaca - Lichk Nonea polychroma - Lichk

Onosma microcarpuma Golden DropsAragats - S of ByurakanOnosma sericeuma Golden DropsAragats - Above Byurakan

Symphytum asperum Rough Comfrey Mount Gndasar

Brassicaceae Cabbage Family

Aethionema armenum (A.arabicum) Aethionema grandiflorum - Burnt Candytuft Gnishik

Alliaria petiolataGarlic MustardMount GndasarArabis turritaTower CressParz Lich

Bunias orientalis Warty Cabbage Parz Lich

Camelina laxaa Gold of PleasureW of YeghegnadzorCapsella bursa-pastorisShepherd's PurseYeghegnadzorCardamine bulbiferaCoralroot Bitter-cressParz Lich

Cardamine impatiens Cut-leaved Bitter-cress Parz Lich
Cardamine uliginosa - Selim Pass

Clypeola jonthlaspiClypeolaAragats - Above ByurakanCrambe orientalisOriental KaleAragats - S of Byurakan

Descurania sophia Flixweed Yerevan

Draba bryoides (yellow) Mossy Whitlow-grass Aragats - Lake Kari

Hesperis matronalis Dame's Violet Aragats - Amberd Junction

 Isatis tinctoria
 Woad
 Sevan Pass

 Lepidium draba
 Hoary Cress
 Armash Fishponds

Lepidium latifoliumDittanderArmash FishpondsLunaria vulgarisHonestyMount Gndasar

Sisymbrium altissimum Tumbling Mustard Near Hatsevan - Artashat

Thlaspi arvense Field Pennywort Gnishik

Onopordum armenum

Pyrethrum coccineum

Scientific name	Common name	Location
Campanulaceae	Bellflower Family	
Campanula stevenii subsp.	-	
beauverdiana		Aragats - Amberd
Campanula tridentata	-	Pambak Ridge
Michauxia laevigata	-	Gnishik
Capparaceae	Caper Family	
Capparis spinosa	Caper	Aragats - Above Byurakan
Caprifoliaceae	Honeysuckle Family	
Dianthus calocephalus	_	Mount Gndasar
Dianthus cinitus	_	Aragats - S of Byurakan
Scabiosa rotata	-	Aragats - Amberd
Caryophyllaceae	Pink Family	
Cerastium dioicum		Pambak Ridge
Cerastium purpurescens	-	Selim Pass
Dianthus crinitus	-	Aragats - S of Byurakan
Eremogone (Arenaria) dianthoides	-	Aragats - Above Byurakan
Eremogone (Arenaria) gypsophiloides		Aragats - Amberd
Gypsophila elegans	-	Haghartsin
Herniaria glabra	Smooth Rupturewort	Selim Pass
Herniaria incana	Grey Rupturewort	Mount Gndasar
Scleranthus perennis	Perennial Knawel	Aragats - Above Byurakan
Silene conica	Sand Catchfly	Lichk
Silene latifolia	White Campion	Aragats - Amberd
Silene spergulifolia	-	Mount Gndasar
Telephium imperati subsp. orientale	-	Mount Gndasar
Compositae (Asteraceae)	Daisy Family	
Achillea arabica (A. biebersteinii)	Bieberstein's Milfoil	Aragats - Above Byurakan
Achillea filipendulina (yellow)	Biodolotom e Minion	W of Yeghegnadzor
Artemisia absinthium	Wormwood	Aragats - Above Byurakan
Carduus nutans	Nodding Thistle	N of Yeghegnadzor
Centaurea cheiranthifolia (white)	-	Aragats - Amberd
Centaurea depressa (blue)	-	Sevan Pass
Centaurea moschata (pink)	Sweet Sultan	Near Hatsevan - Artashat
Centaurea solstitialis	Yellow Star Thistle	Near Hatsevan - Artashat
Centaurea spectabilis (Yellow)	-	Garni
Chardinia orientalis (inc. C.macrocarpa)	-	Aragats - S of Byurakan
Cirsium echius		Haghartsin
Cnicus benedictus	Blessed Thistle	Near Hatsevan - Artashat
Cruprina vulgaris	-	Aragats - Above Byurakan
Cyanus (Centaurea) trumfettii	-	Mount Gndasar
Doronicum macrophyllum	a Leopard's-bane	Sevan Pass
Echinops orientalis	Oriental Globe Thistle	Aragats - S of Byurakan
Erigeron uniflorus	One-flowered Fleabane	Selim Pass
Gundelia tournefortii	-	Near Hatsevan - Artashat
Helichrysum armenium	Armenian Everlasting	Aragats - S of Byurakan
Leucanthemum vulgare	Oxeye Daisy	Mount Gndasar
Onopordum acanthium	Cotton Thistle	W of Yeghegnadzor
Onopordum armenum	Armenian Cotton Thistle	Noor Hotovan Artachet

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Armenian Cotton Thistle

Near Hatsevan - Artashat

Sevan Pass

Scientific name Common name Location

Scorzonera papposaa Viper's-grassAragats - Above ByurakanSenecio caucasicaCaucasian RagwortNear Hatsevan - Artashat

Tanacetum aureum (T. chiliophyllum)-Aragats - AmberdTaraxacum stevenii-Pambak RidgeTragopogon reticulatus-Selim Pass

Xeranthemum squarrosum - Aragats - S of Byurakan

Convolvulaceae Bindweed Family

Convolvulus arvensis Field Bindweed Aragats - S of Byurakan

Cuscuta epithymum Common Dodder Gnishik

Crassulaceae Stonecrop Family

Sedum telephium Orpine Mount Gndasar

Cucurbitaceae White Bryony Family

Bryonia dioica White Bryony Lichk

Elaeagnaceae Sea-buckthorn Family

Elaeagnus angustifolia Russian Olive Armash Fishponds Elaeagnus orientalis - Mount Gndasar

Hippophae rhamnoides Sea-buckthorn Lishk

Ericaceae Heather Family

Pyrola minorCommon WintergreenPambak RidgeRhododendron caucasicum-Pambak Ridge

Vaccinium myrtillus Bilberry Pambak Ridge

Euphorbiaceae Spurge Family

Euphorbia oblongata - Sevan Pass

Fagaceae Beech Family

Fagus orientalis Oriental Beech Parz Lich

Quercus petraea subsp. iberica Georgian Oak Aragats - Above Byurakan

Quercus macranthera Caucasian Oak Parz Lich

Gentianaceae Gentian Family

Gentiana ponticaPontic GentianPambak RidgeGentiana pyrenaicaPyrenean GentianPambak Ridge

Geraniaceae Geranium Family

Erodium cicutariumCommon Stork's-billAragats - S of ByurakanGeranium c.f. molleDove's-foot Crane's-billAragats - S of Byurakan

Geranium robertianum Herb Robert Parz Lich

Geranium tuberosum Tuberous Crane's-bill Mount Gndasar

Hypericaceae St. John's-wort Family

Hypericum hyssopifoliumHyssop-leaved St. John's-wortMount GndasarHypericum perforatumPerforate St. John's-wortYerevan - Botanic Gardens (weed)

Hypericum scabrum - Mount Gndasar

Juglandaceae Walnut Family

[Juglans regia] Walnut Planted

#### Common name Scientific name Location Lamiaceae **Deadnettle Family** Lake Sevan - Gull Island Ajuga chia Ajuga orientalis Oriental Bugle Aragats - Amberd junction Eremostachys molucelloides (ssp. Aragats - Amberd macrophylla) I allemantia iberica Dragon's Head W of Yeghegnadzor White Deadnettle Lamium album Aragats - Amberd junction Henbit Lamium amplexicaule Lichk Leonurus cardiaca Motherwort Yeghegnadzor Phlomis armeniaca Near Hatsevan - Artashat Phlomis herba-venti subsp. pungens Near Hatsevan - Artashat Salvia hydrangea (S. dracocephaloides) Near Hatsevan - Artashat Jupiter's Distaff Salvia glutinosa Haghaetsin (leaves) Salvia limbata Near Hatsevan - Artashat Salvia nemorosa (S. staminea subsp. Haghaetsin (leaves) armena) Scutellaria orientale Oriental Skullcap Mount Gndasar Sideritis montana Aragats - S of Byurakan Atherocalyx Woundwort Stachys atherocalyx Aragats - Above Byurakan Lavender-leaved Woundwort Stachys lavandulifolia Selim Pass Yellow Woundwort Stachys recta Selim Pass Stachys sylvatica Hedge Woundwort Parz Lich Teucrium orientale Oriental Germander Near Hatsevan - Artashat Teucrium polium Felty Germander Aragats - Above Byurakan Thymus kotschyanus Koch's Thyme Aragats - S of Byurakan Ziziphora tenuior Near Hatsevan - Artashat L amily

Leguminosae (Fabaceae)	Pea Fa
Anthyllis vulneraria subsp. boissieri	a Kidne
Astragalus fragrans	_

Astragalus microcephalus

Glycyrrhiza glabra Hedysarum ibericum Lathyrus cicera

Lathyrus digitatus (Orobus cyaneus)

Lathyrus laxiflorus
Lathyrus miniatus
Lathyrus pratensis
Lathyrus roseus
Lotus corniculatus
Medicago minima
Medicago sativa
Melilotus altisimus
Onobrychis arenaria
Onobrychis transcaucasica
Securigera varia

Sphaerophysa salsula Sophora alopecuroides Trifolium arvense Trifolium canescens Trifolium hybridum Trifolium medium Kidney-vetch Pambak Ridge

- Aragats - Amberd junction

Wild Liquorice Heghartsin

Aragats - Above Byurakan (leaves)

Liquorice Armash Fishponds Aragats - Amberd

Aragats - Above Byurakan

- Mount Gndasar
- Selim Pass
Scarlet Pea Parz Lich
Meadow Vetchling Parz Lich
Pink Pea Mount Gndasar
Bird's-foot Trefoil Parz Lich

Aragats - S of Byurakan
 Lucerne Armash Fishponds
 Tall Melilot Aragats - Roadsides
 W of Yeghegnadzor

Gnishik

Crown Vetch W of Yeghegnadzor
Red Bladder-vetch Armash Fishponds
Sophora Aragats - S of Byurakan
Hare's-foot Clover Aragats - S of Byurakan

- Mount Gndasar Alsike Clover Parz Lich

Alsike Clover Parz Lich
Zig-zag Clover Pambak Ridge (leaves)

Malvaceae

Orobanchaceae

Plumbaginaceae

Scientific name Common name Location

Red Clover Selim Pass Trifolium pratense Trifolium repens White Clover Aragats - S of Byurakan Vicia balansae Balan's Vetch Mount Gndasar Vicia variabalis Variable Vetch W of Yeghegnadzor

Linaceae Flax Family

Linum perenne agg. Perennial Flax Mount Gndasar

Linum orientale

**Mallow Family** Alcea rugosa a Hollyhock Near Hatsevan - Artashat Malva neglecta **Dwarf Mallow** Gnishik

**Olive Family** Oleaceae Fraxinus excelsior Ash Parz Lich

**Broomrape Family** Diphelypaea (Phelypaea) tournefortii Mount Gndasar Euphrasia caucasica Caucasian Eyebright Heghartsin

Orobanche ramosa **Branched Broomrape** Lichk Pedicularis armena Armenian Lousewort Pambak Ridge Pedicularis condensata Condensed Lousewort Sevan Pass

Pedicularis sibthorpii Sibthorp's Lousewort Aragats - Above Byurakan

Pedicularis wilhelmsiana Wilhelm's Lousewort Selim Pass Rhinanthus minor agg. Rattle Mount Gndasar Rhynchocorys orientalis Heghartsin

**Poppy Family Papaveraceae** Chelidonium majus **Greater Celandine** Heghartsin

**Small-flowered Fumitory** Fumaria parviflora Aragats - S of Byurakan Glaucium elegans Near Hatsevan - Artashat Papaver arenarium Purple Sand Poppy W of Yeghegnadzor Papaver dubium Long-headed Poppy Norovank Gorge

Papaver fugax Mount Gndasar Papaver lecoquii Yellow-juice Poppy Aragats - S of Byurakan

Papaver orientale Mount Gndasar Papaver persica Persian Poppy Selim Pass Papaver pseudo-orientale Aragats - Amberd

Papaver rhoeas (P. commutatum) Common Poppy Gnishik

Plantaginaceae **Plantain Family** 

Linaria grandiflora Mount Gndasar Plantago lanceolata Ribwort Plantain Aragats - S of Byurakan Veronica arvensis Wall Speedwell Lichk Veronica chamaedrys Germander Speedwell Parz Lich

Veronica gentianoides Gentian-like Speedwell Aragats - Amberd junction Veronica multifida Many-lobed Speedwell Aragats - Above Byurakan Veronica persica Common Field Speedwell Heghartsin

Veronica serpyllifolia Thyme-leaved Speedwell Selim Pass

**Thrift Family** Acantholimon armenum Aragats - S of Byurakan

Crataegus meyeri

Fragaria vesca

Geum urbanum

Potentilla crantzii

Potentilla hirta

Mespilus germanica

Geum rivale

Common name Scientific name Location Polygalaceae Milkwort Family Polygala transcaucasica Mount Gndasar **Knotweed Family** Polygonaceae Persicaria bistorta **Bistort** Selim Pass Polygonum amplexicaule var. amp.(P.petiolatum) Armash Fishponds Polygonum cognatum (P. alpestre) Alpine Knotgrass Aragats - Lake Kari Reynoutria multiflora (Polygonum Chinese Knotweed multiflorum) Mount Gndasar Rumex angustifolius Aragats - Above Byurakan Rumex conglomeratus Clustered Dock Selim Pass **Broad-leaved Dock** Rumex obtusifolius Heghartsin Primulaceae **Primrose Family** Androsace intermedia (A. raddeana) Aragats - Lake Kari Glaux maritima Sea Milkwort Primula algida Aragats - Lake Kari Primula auriculata a Bird's-eye Primrose Selim Pass Primula ruprechtii Ruprecht's Primrose Pambak Ridge Primula veris subsp. macrocalyx Aragats - Amberd junction Ranunculaceae **Buttercup Family** Adonis aestivalis (A. bienertii) a Pheasant's-eye Gnishik Adonis annua Pheasant's-eye W of Yeghegnadzor Anemone narcissiflora subsp. fasciculata Sevan Pass Caltha palustris (C. polypetala) Marsh Marigold Selim Pass Consolida divaricata Aragats - S of Byurakan Consolida orientalis Oriental Larkspur Aragats - S of Byurakan Ranunculus acris Meadow Buttercup Parz Lich Ranunculus arvensis Corn Buttercup Gnishik Lesser Meadow-rue Thalictrum minus Mount Gndasar Trollius ranunculinus (T. patulus) a Globeflower Pambak Ridge **Mignonette Family** Resedaceae Reseda lutea Mignonette W of Yeghegnadzor Rhamnaceae **Buckthorn Family** Rhamnus pallasii Aragats - S of Byurakan Rosaceae **Rose Family** Agrimonia eupatoria Agrimony Yerevan - Botanic Gardens Alchemilla alpina Alpine Lady's-mantle Pambak Ridge Alchemilla glabra Smooth Lady's-mantle Pambak Ridge Cotoneaster sp. Aragats - S of Byurakan

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Wild Strawberry

Alpine Cinquefoil

Hairy Cinquefoil

Water Avens

Wood Avens

Medlar

Aragats - Above Byurakan

Aragats - Above Byurakan

Heghartsin

Selim pass

Parz Lich

Pambak Ridge

Pambak Ridge

Amaryllidaceae

Allium rubellum

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Common name Scientific name Location Potentilla recta Sulphur Cinquefoil Gnishik Poterum sanguisorba subsp. Fodder Burnet balearicum Aragats - Above Byurakan Wild Cherry Prunus avium Parz Lich Rosa hemisphaerica a Yellow Rose Gnishik Spiraea hypericifolia Aragats - Above Byurakan **Bedstraw Family** Rubiaceae Callipeltis cucullaria Near Hatsevan - Artashat Cruciata laevipes Crosswort Aragats - Amberd junction Cleavers Galium aparine Yerevan - Botanic Gardens Woodruff Galium odoratum Heghartsin Lady's Bedstraw Galium c.f. verum Aragats - S of Byurakan Rubia rigidifolia a Madder Yerevan Rubia tinctoria Madder Norovank Gorge Sapindaceae **Maple Family** Acer campestre Field Maple Mount Gndasar Acer monspessulanum subsp. ibericum Mount Gndasar Acer heldreichii subsp. trautvetteri Trautvetter's Maple Sevan Pass Scrophulariaceae **Figwort Family** Scrophularia chrysantha Golden Figwort Aragats - Amberd junction Scrophularia ilvensis Ilven Figwort Selim Pass Verbascum georgicum Georgian Mullein Aragats - S of Byurakan Verbascum speciosum Aragats - S of Byurakan **Nightshade Family** Solanaceae Hyoscyamus nigra Henbane Aragats - S of Byurakan Thymelaeaceae **Mezereon Family** Daphne glomerata Pambak Ridge Urticaceae **Nettle Family** Urtica dioica subsp. dioica Common Nettle Selim Pass Valerianaceae **Valerian Family** Valeriana alliariifolia Sevan Pass Valeriana officinalis Common Valerian Mount Gndasar Violaceae **Violet Family** Viola arvensis Field Pansy Heghartsin Zygophyllaceae **Zygophyllum Family** Zygophyllum fabago Syrian Bean-caper Yerevan Monocots Monocotyledons

Allium victorialis Mountain Leek Pambak Ridge (in bud)

**Daffodil Family** 

Mount Gndasar

Scientific name	Common name	Location
Asparagaceae	Asparagus Family	
Leopoldia caucasica (Muscari	Leopoldia	
caucasicum)	American Orange Lharaciasth	Aragats - Amberd
Muscari armeniacum (M. szovitsianum)	Armenian Grape Hyacinth	Aragats - Amberd junction
Ornithogalum hajastanum	Armenian Star-of-Bethlehem	Aragats - Above Byurakan
Ornithogalum transcaucasicum	•	Aragats - Amberd junction
Cyperaceae	Sedge Family	
Bolboschoenus maritimus	Sea Clubrush	Armash Fishponds
Carex sylvatica	Wood Sedge	Heghartsin
Iridaceae	Iris Family	
Gladiolus atroviolaceus	-	Gnishik
		•·
Liliaceae	Lily Family	
Fritillaria collina	-	Pambak Ridge
Gagea glacialis	Glacier Yellow Star-of-	
Lilium armenum	Bethlehem Amenian Lily	Aragats - Lake Kari
Lilium armenum	American Lily	Sevan Pass
Melanthiaceae	Herb-Paris Family	
Veratrum lobelianum	Green False-helleborine	Sevan Pass (leaves)
		Octain ass (icaves)
Orchidaceae	Orchid Family	
Anacamptis (Orchis) coriophora	Bug Orchid	Aragats - Above Byurakan
Corallorhiza trifida	Coralroot Orchid	Pambak Ridge
Dactylorhiza euxina	a Marsh Orchid	Selim Pass
Dactylorhiza sambucina	Elder-flowered Orchid	Mount Gndasar
Dactylorhiza umbrosa (D. sanasunitensis)	-	Selim Pass
Dactylorhiza urvilleana	-	Parz Lich
Gymnadenia conopsea subsp.	Fragrant Orchid	Dambak Bidaa
conopsea Orchis palustris	-	Pambak Ridge Aragats - Amberd
Platanthera chlorantha	Greater Butterfly Orchid	Parz Lich
		I diz Licii
Poaceae	Grass Family	
Aegilops cylindrica	Jointed Goat-grass	Aragats - Above Byurakan
Anisantha tectorum	Drooping Brome	Aragats - S of Byurakan
Arundo donax	Giant Reed	Armash Fishponds
Arrhenatherum elatius	False Brome	Yerevan - Botanic Gardens
Cynodon dactylon	Bermuda Grass	Armash Fishponds
Hordeum murinum	Wall Barley	Yerevan
Poa bulbosa var. vivipara	Viviperous Bulbous Meadow-grass	Mount Gndasar
Poa nemoralis Puccinellia distans	Wood Meadow-grass Reflexed Salt-marsh Grass	Heghartsin
Secale vavilovii	Reliexed Salt-Marsh Grass	Armash Fishponds
Stipa pulcherrima	a Feather-grass	On the late
Stipa fuichemma Stipa tirsa	Horsetail Feather-grass	Gnishik
Supa ursa	i iorociali i califer-grass	Aragats - Amberd junction
Typhaceae	Bulrush Family	
Typha angustifolia	Lesser Bulrush	Armash Fishponds

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Scientific name Common name Location

Xanthorrhoeaceae Asphodel Family

Eremurus spectabilis Yellow Foxtail Lily Mount Gndasar

Birds ( $\checkmark$ =recorded but not counted; H = heard only; LO = leader only)

							Jur	е			
	Common name	Scientific name	2	3	4	5	6	7	8	9	10
1	Lesser White-fronted Goose	Ansar erythropus							✓		
2	Ruddy Shelduck	Tadorna ferruginea					✓		✓		
3	Gadwall	Mareca strepera					✓				
4	Mallard	Anas platyrhynchos					✓	✓	✓		
5	Red-crested Pochard	Netta rufina			✓						
6	Common Pochard	Aythya ferina			✓						
7	Ferruginous Duck	Aythya nyroca			✓		✓				
8	Caucasian Grouse	Lyrurus mlokosiewiczi							✓		
9	Caspian Snowcock	Tetraogallus caspius				✓					
10	Chukar Partridge	Alectoris chukar		✓		✓					
11	Common Quail	Coturnix coturnix				Н		Н			
12	Little Grebe	Tachybaptus ruficollis					✓				
13	Great Crested Grebe	Podiceps cristatus			✓		✓		✓		
14	Black-necked Grebe	Podiceps nigricollis					✓				
15	White Stork	Ciconia ciconia		✓	✓	✓	✓			<b>✓</b>	
16	Glossy Ibis	Plegadis falcinellus			✓				✓		
17	Eurasian Spoonbill	Platalea leucorodia			<b>✓</b>						
18	Eurasian Bittern	Botaurus stellaris					<b>√</b>				
19	Little Bittern	Ixobrychus minutus			<b>✓</b>						
20	Black-crowned Night Heron	Nycticorax nycticorax			<b>✓</b>		<b>√</b>		<b>✓</b>		
21	Squacco Heron	Ardeola ralloides			<b>√</b>				<b>✓</b>		
22	Western Cattle Egret	Bubulcus ibis							<b>✓</b>		
23	Grey Heron	Ardea cinerea			<b>√</b>		<b>√</b>		<b>✓</b>		
24	Purple Heron	Ardea purpurea			<b>√</b>		<b>√</b>		<b>✓</b>		
25	Little Egret	Egretta garzetta			<b>✓</b>		<b>√</b>		<b>✓</b>		
26	Pygmy Comorant	Microcarbo pygmeus			<b>✓</b>						
27	Great Cormorant	Phalacrocorax carbo			<b>✓</b>				<b>√</b>		
28	Bearded Vulture	Gypaetus barbatus		<b>✓</b>		<b>√</b>					
29	Egyptian Vulture	Neophron percnopterus								<b>1</b>	
30	European Honey Buzzard	Pernus apivorus				<b>√</b>					
31	Griffon Vulture	Gyps fulvus		<b>√</b>							
32	Short-toed Snake Eagle	Circaetus gallicus					<b>√</b>				
33	Lesser Spotted Eagle	Aquila pomarina						<b>√</b>			
34	Levant Sparrowhawk	Accipiter brevipes						-			<b>✓</b>
35	Western Marsh Harrier	Circus aeruginosus			<b>✓</b>		<b>✓</b>		<b>✓</b>		-
36	Long-legged Buzzard	Buteo rufinus			<u> </u>	<b>√</b>		<b>√</b>			
37	Common Buzzard	Buteo buteo		<b>√</b>	<b>√</b>	· /		· ·	<b>✓</b>		
38	Corn Crake	Crex crex		•	<u> </u>	<u> </u>		, ·	Н		
39	Common Moorhen	Gallinula chloropus			<b>√</b>						
40	Eurasian Coot	Fulica atra			<b>∨</b>				<b>✓</b>		
					<b>∨</b>				•		
41	Black-winged Stilt	Himantopus himantopus									
42	Northern Lapwing	Vanellus vanellus			<b>√</b>						
43	White-tailed Lapwing  Armenian Gull	Vanellus leucurus			<b>v</b>		<b>✓</b>				

							Jun	е			
	Common name	Scientific name	2	3	4	5	6	7	8	9	10
45	White-winged Tern	Chlidonias leucopterus							LO		
46	Rock Dove [Feral]	Columba livia Feral	✓	✓	✓	✓	✓	✓	✓	✓	✓
47	Common Wood Pigeon	Columba palumbus					✓	✓		✓	✓
48	Common Cuckoo	Cuculus canorus		✓	✓	Н	✓	Н	✓		✓
49	Alpine Swift	Tachymarptis melba								✓	
50	Common Swift	Apus apus	✓	✓	✓	✓	✓	✓	✓	✓	✓
51	European Roller	Coracias garrulus		✓	✓					✓	
52	Common Kingfisher	Alcedo atthis			✓						
53	European Bee-eater	Merops apiaster			✓					✓	
54	Eurasian Hoopoe	Upupa epops		✓	✓	✓	✓	✓	✓	✓	✓
55	Syrian Woodpecker	Dendrocopos syriacus		✓	✓					✓	✓
56	Great Spotted Woodpecker	Dendrocopos major					✓	✓			
57	Common Kestrel	Falco tinnunculus				✓				✓	
58	Red-backed Shrike	Lanius collurio		✓		✓	✓	✓		✓	
59	Lesser Grey Shrike	Lanius minor				✓					
60	Eurasian Golden Oriole	Oriolus oriolus				Н	Н				
61	Eurasian Jay	Garrulus glandarius		✓		✓		<b>√</b>	✓		✓
62	Eurasian Magpie	Pica pica	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	✓	<b>✓</b>	
63	Red-billed Chough	Pyrrhocorax pyrrhocorax		<b>√</b>			<b>✓</b>			<b>✓</b>	
64	Western Jackdaw	Corvus monedula			<b>√</b>		<b>✓</b>			<b>✓</b>	<b>✓</b>
65	Rook	Corvus frugilegus		<b>√</b>							
66	Hooded Crow	Corvus cornix		<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>✓</b>	<b>√</b>	<b>✓</b>
67	Northern Raven	Corvus corax		<b>√</b>					<b>√</b>		
68	Coal Tit	Periparus ater						<b>✓</b>			
69	Eurasian Blue Tit	Cyanistes caeruleus			<b>✓</b>		<b>✓</b>	<b>✓</b>			
70	Great Tit	Parus major		<b>√</b>	<b>✓</b>		<b>✓</b>	<b>✓</b>	<b>√</b>	<b>✓</b>	<b>√</b>
71	Bearded Reedling	Panurus biarmicus			<b>✓</b>						
72	Crested Lark	Galerida cristata		<b>√</b>						<b>✓</b>	
73	Bimaculated Lark	Melanocorypha bimaculata		<b>√</b>							
74	Horned Lark	Eremophila alpestris pencilliata		<b>√</b>							
75	Sand Martin	Riparia riparia					<b>✓</b>	<b>✓</b>	<b>√</b>		
76	Barn Swallow	Hirundo rustica		<b>√</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>√</b>	<b>✓</b>	<b>✓</b>
77	Eurasian Crag Martin	Ptyonoprogne rupestris			<b>✓</b>	<b>✓</b>	<b>✓</b>			<b>√</b>	
78	Common House Martin	Delichon urbicum		<b>√</b>		<b>✓</b>	<b>✓</b>			<b>√</b>	
79	Cetti's Warbler	Cettia cetti			Н	Н	Н		<b>√</b>		
80	Willow Warbler	Phylloscopus trochilus		Н	· · ·	· · ·	· · ·				
81	Common Chiffchaff	Phylloscopus collybita		<u> </u>			Н	<b>√</b>	<b>✓</b>		
82	Mountain Chiffchaff	Phylloscopus sindianus						<b>√</b>	Н		
83	Green Warbler	Phylloscopus nitidus						Н	- ' '		
84	Great Reed Warbler	Acrocephalus arundinaceous			<b>√</b>		<b>✓</b>				
85	Eurasian Reed Warbler	Acrocephalus scripaceus			· /		·				
86	Marsh Warbler	Acrocephalus palustris			ľ		· /				
87	Upcher's Warbler	Hippolais languida					Ť		<b>✓</b>	<b>✓</b>	<b>√</b>
88	Eurasian Blackcap	Sylvia atricapilla						<b>✓</b>	,	,	•
89	Lesser Whitethroat	Sylvia atricapilia Sylvia curruca						<b>,</b>			<b>✓</b>
		Sylvia curruca Sylvia communis		<b>✓</b>		<b>✓</b>	<b>✓</b>				<b>∨</b> ✓
90	Common Whitethroat	Troglodytes troglodytes		-		•	•	Н	<b>✓</b>		-
91	Eurasian Wren							H ✓	<b>V</b>		
92	Eurasian Nuthatch	Sitta europaea		<b>✓</b>				<b>V</b>		<b>✓</b>	
93	Western Rock Nuthatch	Sitta neumayer		¥		<b>√</b>					
94	Eastern Rock Nuthatch	Sitta tephronota			✓	<b>V</b>				✓	

							Jun	e			
	Common name	Scientific name	2	3	4	5	6	7	8	9	10
95	Rosy Starling	Pastor roseus		✓	✓		✓			✓	
96	Common Starling	Sturnus vulgaris	✓		✓	✓	✓	✓	✓	✓	✓
97	Ring Ouzel	Turdus torquatus					Н		✓		
98	Common Blackbird	Turdus merula	✓	✓	✓	✓	✓	✓	✓	✓	✓
99	Song Thrush	Turdus philomelos						Н			
100	Rufous-tailed Scrub Robin	Erythropygia galactotes syriaca		✓							
101	European Robin	Erithacus rubecula						✓			
102	Bluethroat	Luscinia svecica					✓				
103	Common Nightingale	Luscinia megarhynchos				Н	✓				Н
104	White-throated Robin	Irania gutturalis								✓	
105	European Pied Flycatcher	Ficedula hypoleuca				✓					
106	Black Redstart	Phoenicurus ochruros semirufus		✓			✓				
107	Common Redstart	Phoenicurus phoenicurus samamisicus						✓	✓		
108	Common Rock Thrush	Monticola saxatilis		✓							
109	Blue Rock Thrush	Monticola solitarius		✓	✓		✓				
110	Whinchat	Saxicola rubetra					✓	✓			
111	Northern Wheatear	Oenanthe oenanthe		✓					✓		
112	Isabelline Wheatear	Oenanthe isabellina		✓						✓	
113	Black-eared Wheatear	Oenanthe hispanica		✓			✓				
114	Pied Wheatear	Oenanthe pleschanka				✓	✓				
115	Finsch's Wheatear	Oenanthe finschii								✓	
116	White-throated Dipper	Cinclus cinclus					✓				
117	House Sparrow	Passer domesticus		✓	✓	✓	✓	✓	✓	✓	✓
118	Eurasian Tree Sparrow	Passer montanus			✓		✓				
119	Rock Sparrow	Petronia petronia					✓			✓	
120	Black-headed Western Yellow Wagtail	Motacilla flava feldegg			✓		✓				
121	White Wagtail	Motacilla alba		✓	✓	✓	✓	✓	✓	✓	✓
122	Tree Pipit	Anthus trivialis		✓				✓	✓	✓	
123	Water Pipit	Anthus spinoletta		✓						✓	
124	Common Chaffinch	Fringilla coelebs						✓	✓	✓	
125	Eurasian Bullfinch	Pyrrhula pyrrhula						Н			
126	Common Rosefinch	Carpodacus erythrinus				Н	✓	✓	✓		
127	European Greenfinch	Chloris chloris		✓				✓			
128	Common Linnet	Linaria cannabina		✓	✓					✓	
129	European Goldfinch	Carduelis carduelis		✓	✓		✓				
130	Corn Bunting	Emberiza calandra		✓	✓	✓	✓	✓	Н	✓	
131	Rock Bunting	Emberiza cia				✓					
132	Ortolan Bunting	Emberiza hortulana		✓		✓	✓				
133	Black-headed Bunting	Emberiza melanocephala		✓	<b>✓</b>	<b>✓</b>	<b>✓</b>			<b>✓</b>	

## Mammals (D = Dead)

1	Red Fox	Vulpes vulpes				✓			
2	Golden Jackal	Canis aureus						D	
3	Bezoar's Goat	Capra aegagrus aegagrus		✓	✓				
4	European Hare	Lepus europaeus						✓	
5	Caucasian Squirrel	Sciurus anomalus					✓		

## Amphibians & Reptiles

			June										
	Common name	Scientific name	2	3	4	5	6	7	8	9	10		
1	Levant Water Frog	Pelophylax bedriagae			✓			Н	✓				
2	Armenian Rock Lizard	Darevskia armeniaca			✓		✓	✓					
3	Schneider's Skink	Eumeces schneideri,								✓			
4	Dice Snake	Natrix tessellata					✓						

### Butterflies (D = dead)

1	Black-veined White	Aporia crataegi iranica		<b>✓</b>	<b>✓</b>	<b>✓</b>	✓		✓	
2	Large White	Pieris brassicae	✓			✓	<b>✓</b>	✓	✓	✓
3	Small White	Pieris rapae transcaucasica	✓	✓	✓	✓	✓	✓	✓	✓
4	Green-veined White	Pieris napi		✓						
5	Bath White	Pontia edusa edusa		✓					✓	
6	Orange Tip	Anthocharis cardamines	✓			✓	✓	✓		
7	Clouded Yellow	Colias crocea	✓	✓	✓	✓	<b>✓</b>	✓	✓	✓
8	Berger's Clouded Yellow	Colias alfacariensis fontainei				✓				
9	Brimstone	Gonepteryx rhamni miljanowskii								✓
10	Eastern Wood White	Leptidea duponcheli maiae			✓					
12	Green Hairstreak	Callophrys rubi				D				
13	Small Copper	Lycaena phlaeus						✓	<b>✓</b>	
14	Osiris Blue	Cupido osiris			✓	✓				
15	Holly Blue	Celastrina argiolas								<b>✓</b>
16	Green-underside Blue	Glaucopscyche alexis lugens	✓	<b>✓</b>	✓	✓				
17	Eastern Brown Argus	Plebejus (Kretania) eurypilus		<b>✓</b>						
18	Brown Argus	Aricia agrestis azerbajdzhana	✓		✓	✓				
19	Eastern Mazarine Blue	Polyommatus semiargus bellis		<b>✓</b>	<b>√</b>		<b>✓</b>			
20	Amanda's Blue	Polyommatus amandus	✓	✓	✓					<b>✓</b>
21	Adonis Blue	Polymmatus (Lysandra) bellargus	✓	<b>✓</b>						
22	Common Blue	Polyommatus icarus		✓		✓	✓		<b>✓</b>	
24	Nettle-tree Butterfly	Libythea celtis		✓					<b>✓</b>	
26	Red Admiral	Vanessa atalanta								✓
27	Painted Lady	Vanessa cardui	✓		✓	✓		✓	<b>✓</b>	
28	Small Tortoiseshell	Aglais urticae turcica					✓	✓		
29	Southern Comma	Polygonum egea							<b>✓</b>	
30	Cardinal Fritillary	Argynnis pandora	✓	✓	✓				<b>✓</b>	✓
31	Niobe Fritillary	Argynnis niobe gigantea		<b>✓</b>						
32	Queen of Spain Fritillary	Issoria lathonia				✓			<b>✓</b>	<b>✓</b>
33	Pearl-bordered Fritillary	Boloria euphrosyne dagestanica					<b>✓</b>			
34	Freyer's Fritillary	Melitaea arduinna		✓						
35	Eastern Knapweed Fritillary	Melitaea telona armenica				✓				
36	Spotted Fritillary	Melitaea didyma transcaucasica	✓		✓					
37	Lesser Spotted Fritillary	Malitaea trivia caucasi				✓				
38	Heath Fritillary	Mellicta athalia athalia			✓	✓				
39	a Marsh Fritillary 'type'	Euphydryas provincialis		✓			✓	✓		
41	Marbled White	Maelanargia larissa astanda	✓	✓	✓				✓	
42	Woodland Ringlet	Erebia medusa psodea					✓			
43	'Eastern' Meadow Brown	Maniola jurtina strandiana								✓
44	Small Heath	Coenonympha pamphilus marginata	<b>✓</b>			✓			<b>✓</b>	
45	Pearly Heath	Coenonympha arcania caucasica			✓					
46	Wall Brown	Lasiommata megera megaerina				<b>✓</b>				

							Jun	е				
	Common name	Scientific name	2	3	4	5	6	7	8	9	10	
48	Large Grizzled Skipper	Pyrgus alveus		✓	✓	✓						
49	Yellow-banded Skipper	Pyrgus sidae			✓							
50	Orbed Red-underwing Skipper	Spialia orbifer				✓						
51	Mallow Skipper	Carcharodus alceae								✓		
52	Dingy Skipper	Erynnis tages unicolor		✓								
53	Large Skipper	Ochlodes sylvianus			✓							

## Micro Moths

1	Pyralid	Synaphe moldavica	✓				
2	Crambid	Chrysocrambus linetella	✓		✓		
3	Crambid	Pyrausta				✓	

# Macro Moths (C = caterpillar)

1	Forester	Adscita statices	✓		✓				
2	Transparent Burnet	Zygaena purpuralis			✓				
3	a Burnet	Zygaena cuvieri.						✓	
4	Franconian Lackey	Malacosoma franconicum	С		С	С			
5	Golden-yellow Wave	Idaea aureolaria			✓		✓		
6	Yellow Shell	Camptogramma bilineata			✓				
7	Chimney Sweeper	Odezia atrata			✓				
8	Latticed Heath	Chiasmia clathrata clathrata					✓		
9	Common Heath	Ematurga atomaria atomaria		✓					
10	Black-veined Moth	Siona lineata				✓	✓		
11	Humming-bird Hawk-moth	Macroglossum stellatarum	✓		✓	✓		✓	
12	Bordered Straw	Heliothis peltigera			✓				
13	Spotted Sulpur	Emmelia trabealis			✓				
14	Silver-Y	Autographa gamma					✓		
15	Burnet Companion	Euclidia glyphica			✓	✓	✓		
16	Four Spotted	Tyta luctuosa				✓			
17	Fan-foot	Zanclognatha tarsipennalis					✓		

## Other Invertebrates

1	Banded Demoiselle	Calopteryx splendens		✓				
2	Azure Bluet	Coenagrion puella		✓				
3	Common Blue-tail	Ischnura elegans		✓				
4	Lesser Emperor	Anax parthenope		✓				
5	Nose Grasshopper	Acrida ungarica		<b>✓</b>			✓	
6	Field Cricket	Gryllus campestris			✓			
7	Parent Bug	Elasmucha grisea				✓		
8	Shield Bug	Eurydema c.f. commulus		✓				
9	Shield Bug	Eurydema dominialis		✓				
10	Shield Bug	Graphosoma lineatum			✓			
11	Shield Bug	Graphosoma semipunctata			✓			
12	Leather Bug	Syromastes rhombeus	✓					
13	Assassin Bug	Reduviidae sp.	✓					
14	Froghopper (Red & Black)	Cercopis vulnerata		✓				
15	Ant-lion	Nemoptera nitida	✓				✓	

	Common name		June									
		Scientific name	2 3 4 5 6	6	7	8	9	10				
16	Bee-fly	Bombylius sp.				✓						
17	Robber-fly	Asilidae sp.									✓	
18	Paper Wasp	Polistes sp.								✓		
19	Armenian Bumblebee	Bombus armeniacus						✓			✓	
20	White-tailed Bumblebee	Bombus lucorum				✓						
21	Carpenter Bee	Xylocopa sp.		✓		✓		✓				
22	Common Carder Bee	Bombus pascuorum					✓	✓	✓	<b>✓</b>		
23	Honey Bee	Apis millifera		✓		✓				✓		
24	Pollen Chafer	Tropinota squalida		✓		✓			✓			
25	Pollen Chafer	Oxythyrea funesta		✓	✓					✓	✓	
26	Wood-boring Beetle	Capnodis tenebrionis			✓							
27	Soldier Beetle	Cantharis c.f. livida		✓								
28	Ten-spot Ladybird	Adalia 10-punctata					✓					
29	Longhorn Beetle	Agapanthia dahli subsp. rubenyani						✓				
30	Longhorn Beetle	Agapanthia c.f. cynarae						✓				
31	Salticid Spider	Philaeus chrysops		✓								

## Molluscs

1	Roman Snail	Helix pomatia					✓				
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Diphelypaea tournefortii - Geoff Carss



Anemone narcissiflora subsp. fasciculata - Geoff Carss



Marsh Warbler - Tony Wardell