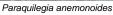
Alpine Flowers of the Tien Shan

Naturetrek Tour Report

11 - 23 June 2016







Tulipa kaufmannian



Dracocephalum grandiflorum



Primula minkwitziae

Report and images compiled by David Morris



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Tour Participants: David Morris (Leader) and Vladimir Epiktetov (Local botanist) with six Naturetrek clients

Day 1

Saturday 11th June

Today most of the group boarded our Turkish airline flights from London Gatwick and travelled to Almaty via Istanbul.

Day 2

Sunday 12th June

The four members of the group and David, who had travelled from London, arrived into Almaty at just after 5.30am. After a short delay in getting through passport control, we met our local botanist, Vladimir, and our interpreter, Amelia, who would be with us for the duration of our trip. We boarded our comfortable minibus and headed through the leafy streets of Almaty, noting numerous Common Mynas as we went to pick up Robert and Patricia who had arrived the previous day, before we headed on towards the imposing snow-capped peaks of the Tien Shan Mountains. As we entered the Ile-Alatau National Park, the road started to climb through the foothills, quickly gaining altitude as we travelled along. Roadside slopes and hillsides were covered in a profusion of the yellow flower spikes of the robust Ligularia macrophylla and large sprawling bushes of Rosa fedtschenkoana were covered in bright white blooms. We arrived at our mountain lodge, nestled in the high altitude pine forests of the endemic Picea schrenkiana, where we settled into our rooms and had a couple of hours' rest.

By late morning, with the sun now shining brightly, we walked from our accommodation up the valley towards Big Almaty Lake. As soon as we left our guesthouse, we were fully amongst the flower-rich mountain meadows of the Tien Shan, giving plenty of opportunity to acquaint ourselves with the flora of the region. Sheltered grasslands held white-flowered *Anemone narcissiflora* ssp. *protracta*, *Astragalus alpinus*, orange *Erigeron auraniticus*, an attractive pea *Lathyrus gmelinii*, the dainty annual *Androsace septentrionalis*, plus three species of shrubby *Lonicera*. We noted both endemic trees *Betula tianschanica* and flowering *Sorbus tianschanica*, plus the historic parent of the domestic apple, *Malus sieversii*. We scrambled up through rocky woodland finding *Goodyera repens* and a trio of attractive *Primulaceae* in the form of *Primula matthioli* ssp. *brotheri* with its attractive purple nodding bells, *Primula algida* and a single specimen of *Primula kaufmaniana*.

We enjoyed a leisurely picnic lunch noting *Papaver croceum* and birdlife including Hume's Leaf Warbler, Red-mantled Rosefinch, Grey-headed Goldfinch and Red-fronted Serins. After lunch we headed on further up the valley, noting the nodding *Pulsatilla campanella*, the attractive pink dandelion *Taraxacum pseudoroseum* and a lilac-flowered compact brassica, *Chorispora bungeana*. By late afternoo we headed back to our lodge to freshen up before enjoying a substantial traditional evening meal.

Day 3

Monday 13th June

We woke to a fine bright day with the surrounding snow-capped peaks lit up well by the warming morning sun. After a breakfast including local rice porridge, we set off up the valley to explore the species and habitats around Big Almaty Lake. We set off towards the dam, passed the border guard checkpoint and onto the dam wall before heading down a track around the lakes western shore. On the dam we found *Scrophularia kiriloviana*, *Polygonum rupestre*, profusely flowering *Oxytropis globiflora* and a nice, but unknown species of *Lappula* with sky blue flowers. On a rocky hillside adjacent to the track we found a single spike of *Dactylorhiza umbrosa*, *Leontopodium fedtschenkoanum*,

purple-flowered Campanula glomerata and the tiny Gentiana karelinii. It wasn't just good plants: in the scrubby pines and junipers we found Black-throated Accentor, a smart male Guldenstadt's Redstart, White-browed Tit Warbler, Hume's Whitethroat and Oriental Turtle Dove. As the track descended towards the lake, a free-draining sunny scree contained Allium atrosanguineum, Doronicum turkestanicum, and the attractive orange Erysimum croceum, a Kazakhstan red book species. At the end of the reservoir we found several Ruddy Shelduck and a pair of Ibisbill on the braded riverbed as it joined the lake.

Lunch was enjoyed overlooking the lake from a raised elevation where we saw a pair of chunky White-winged Grosbeak and an obliging Red Squirrel. After lunch we explored the area above the tree line, which consisted of floristic open meadows with a scattering of *Juniperus sibirica* and *Juniperus pseudosabina* scrub and plenty of butterflies on the wing in the warm afternoon sun. In the turf we found Frog Orchid, *Dactylorhiza (Coeloglossum) viridis, Valeriana turkestanica* and our fourth honeysuckle for the trip with prostrate and woody *Lonicera olgae*. By late afternoon we dropped some of the group at the lodge, and the rest of us explored a meadow a little lower down the valley, noting *Codonopsis clematidea*, *Iris alberti*, and a hillside covered in *Rheum tianschanicus*, *Ligularia macrophylla* and *Eremurus altaicus*. We returned to the lodge for an evening meal and to complete the daily log.

Day 4

Tuesday 14th June

Another fine day greeted us, so after breakfast we headed up above Big Almaty Lake to spend the day botanizing around the former Soviet cosmostation. Our first foray onto the turf in the alpine zone was truly amazing, with a riot of colour breaking through, following the recent retreat of melting snow. Bright white Callianthemum alatavicum was in full bloom along with Ranunculus alberti, purple and cream Viola altaica, Gagea serotina and compact mats of Rhodiola coccinea. Stars of the show were the carpets of yellow-flowered Tulipa dasystemon and Tulipa heterophylla. We explored the lower slopes finding Eritrichium tianschanicum and adjacent to lingering snow patches we found two delightful members of the Ranunculaceae: Oxygraphis glacialis and Trollius lilacinus. We pushed up the slope to about 3,400m altitude where we found impressive old cushions of tight flowered Smelowskia calycina. Growing through the cushions were a number of interesting alpines including Draba altaica, Smelowskia calycina and Saxifraga macrocalyx. Most of the group headed back down the slope, but a small number of us headed to the summit at 3,590m where we found Saxifraga oppositifolia, Androsace lehmanniana and Pedicularis violascens growing in the stony wind-clipped turf.

Lunch was enjoyed back by the minibus where groups of Alpine Chough flew overhead, going back and forth into the old abandoned buildings where they were nesting. After lunch we headed back down the road a short way where we spotted mauve flowers growing on some nearby north facing rocks. We scrambled up and across a small rocky scree to find a mass of perfectly flowering *Paraquilegia anemonoides* on the rocks around us. With us all feeling a little tired from an excellent day botanising in the high alpine zone, we headed back down the pass, stopping briefly to see a stunning clump of dark blue *Dracocephalum grandiflorum*. The evening was completed with a meal, glass of wine and completing the daily plant checklist.

Day 5

Wednesday 15th June

On our final day in Ile-Alatau National Park we headed back up towards the Zhusalykezen Pass and stopped to do a spot of plant hunting on the slopes above the observation station. We stopped at the checkpoint where the young border guard thoroughly checked our documents before we were allowed to proceed. We parked up a short distance further on and walked up a small valley with a well-eroded riverbed. One of the first plants we came across

was the impressive thistle *Schmalhausenia nidulans*, a scarce red data book species in Kazakhstan. The turf featured many of the alpines we encountered yesterday including plenty more tulips. New species here included *Lagotis integrifolia* and *Pedicularis oederi*. Mammals here were quite good with Red Fox, Stoat and numerous Grey Marmots that posed for us to get photos. Birds included White-winged Grosbeak, Water Pipit, Brown Accentor and Golden Eagle circling over a nearby peak. By mid-day, we headed a short way back down the pass to our lodge to have lunch and load up the bus before we departed back towards Almaty.

We headed down the pass and valley in the direction of Almaty, stopping in the foothills near the debris-control dam noting Eremurus tianschanicus, Eremurus robustus, Ligularia heterophylla and Iris alberti in seed. Vladimir and David had pre-arranged to meet up with leading central Asian botanist Anna Ivashenko, where we were able to purchase signed copies of her book on the flora of Kazakhstan and accompanying field guide. With the afternoon drawing in, we headed to the station where we boarded our overnight sleeper train to Tyulkubas. We settled in our cosy cabins where we had dinner as the train passed through the vast Kazakh steppe. Out on the plains, nomadic herders rounded up their stock in this vast open landscape. With the sun setting, we settled down for the night in preparation for tomorrow and the start of exploring Aksu-Dzhabagly nature reserve to the west.

Day 6

Thursday 16th June

We woke on our sleeper service to Tyulkubas with the mist over the steppe burning off in the warming morning sun. The lofty peaks of the Tien Shan rose dramatically off the plain to the south, glistening white with snow. We were met by our host at the station and, with luggage loaded, we headed off to Zhabagly where we settled in our comfortable guesthouse. The accommodation was nestled in a well-wooded garden with lots of bird activity around us. Common Mynas, Jackdaws and groups of noisy Rosy Starlings were all nesting in buildings and within boxes around the property. Nightingales sang and Oriental Turtle Doves trotted around the lawn. We had a cooked breakfast at our lodge before travelling east for the day to explore the Kok Sai canyon on the edge of Aksu-Zhabagly nature reserve.

The drive east over the edge of the vast Kazakh steppe took about two hours, with the mighty peaks of the Tien Shan following us all the way providing a dramatic backdrop to our day. After negotiations with border guards, we continued to the canyon to find a vast geological depression in the otherwise flat steppe with a river running through the bottom. Large conglomerate cliffs and stacks lined the valley sides making it look like a set from an Indiana Jones film. The adjoining steppe thronged with insects and covered in the blooms of early summer flowers. Yellows in the colour palette included *Brassica elongata*, *Handelia trichophylla* and the everlasting *Helichrysum maracandicum*. Blues and magentas came from *Gentiana olivieri*, *Centaurea depressa* and the globular flower heads of both *Allium caesium* and *Allium barsczeweskii*.

We headed down to explore the shingle scree flanks of the canyon; in the thin soils we found the tall pink spires of *Eremurus tianschanicus*, pink mats of flowering *Dracocephalum diversifolium*, prostrate *Echinops tschimganicus* and a couple of fading *Iris willmottiana* from the Juno section. Black stork and Egyptian Vulture circled overhead as we botanised on the slopes. As we climbed out of the canyon, we were met by a traditional Kazakhstani horseman and his herd of horses and cattle who was very pleased to be asked to pose for a photo. With a thunderstorm moving in overhead, we headed back to the bus to have our picnic lunch out of the rain shower.

As the afternoon cleared, Red-headed Buntings and Calandra Larks started to sing, so we headed a bit further up the Canyon adjacent to the Kyrgyzstan border. At the top of the canyon we found masses of *Gentiana olivieri*, Rosa fedtschenkoana and Linum pallescens. With the day drawing in, we headed back to the guesthouse to have dinner of locally caught fish.

Day 7 Friday 17th June

As forecasted, today we woke to rain, which was predicted to be fairly torrential at higher altitudes, so we adjusted our itinerary to explore the mountain flora at lower elevations on foot and by 4WD. The climate was pleasant: overcast yet mild, so we set off walking up a track into the heart of Aksu-Dzhabagly nature reserve where we found a good selection of butterflies on the wing. Wild apple, Malus sieversii, Hawthorn, Crataegus turkistanica and Juniperus seravschanica where the most frequent shrubs on the slope, home to many musical singing nightingales. Hobby and a stunning male Golden Oriole perched in a nearby tree added to the bird interest of the day. Three species of large and robust members of the Apiaceae were common trackside plants with Ferula tenuisecta, Ferula penninervis and Prangos pabularia all looking like large yellow-flowered angelicas. Sprawling bushes of Rosa kokanica and Rosa fedtschenkoana were in full bloom on the valley sides. The diverse and herb-rich sward was full of a range of colours and species of flowering plants. Blue spires of Delphinium confusum, White Hollyhock, Alcea nudiflora, pink Phlomis salicifolia and the delightful bells of Codonopsis clematidea put on a fine display. Iris sogdiana was all the way along our route into the mountains, being in seed at the start of the walk, then with numerous flowering plants pleasing Ken towards our lunch stop. Amongst the growing herbaceous plants, we found large quantities of Tulipa greigii in seed giving a hint of what the area would have been like a month before.

By midday the rain arrived so we continued a short distance to Kishi-Kaindy, a small mountain house where we arrived to a lit fire and enjoyed our picnic lunch and hot tea, sheltered out of the worst of the rain. With picnic lunch finished and the rain easing off, we headed back down the mountain track in low cloud, which cleared in patches to give us views of river valleys, distant steppes and lofty snow-capped peaks. At the end of the afternoon, we visited the nature reserve museum in Zhabagly village where a young park official gave us chapter and verse on the reserves wildlife, history and archaeology in perfect English. With most of the group damp from the day's rain, we headed back down to our comfortable guesthouse for a warming shower, dinner and a good night's sleep.

Day 8 Saturday 18th June

Today we woke to blue skies and sun, so after breakfast we packed our bags, boarded our 4WD vehicles and headed up to Ulken-Kaindy mountain house, nestled beneath the peaks of some of the large peaks of Aksu-Dzhabagly nature reserve. Our outing for today was to walk up the Ulken-Kaindy valley from the alpine meadows around the lodge to the start of the alpine zone at the head of the valley. We started walking through lush vegetation of Ligularia talassica, Delphinum confusum and Thalictrum flavum around the river, before crossing it to find Dactylorhiza umbrosa and Primula matthioli ssp. turkestanica. The stream banks were covered in Ferula renardii, Rosa alberti, Rosa hissarica and the abundant seed heads of Tulipa kaufmanniana.

Lunch was enjoyed in the valley bottom amongst the blooms, as we observed Siberian Ibex clambering on the craggy peaks above. Scree slopes along the valley sides held *Ixiolirion tataricum*, *Dictamnus albus*, *Eremurus regelii* and several Apollo butterflies, nectaring and on the wing. The head of the valley became increasingly narrow and rocky; it was here that the start of the alpine vegetation zone truly started. *Campanula capusii*, *Campanula alberti* and

Euphorbia humilis clung to the rocks. Those members of the group who had managed to make it to this point explored a cool gorge, still with patches of melting snow present. Primula minkwitziae, Androsace sericea, Trollius altaicus, Viola biflora, Corydalis gortschakovii and pale blue Paraquilegia caespitosa all adorned the shady cliffs and crevices. A pair of Common Rock Thrushes with recently fledged young posed nicely on the rocks. By late afternoon we headed back down the valley and returned to the mountain house where we had our evening meal and watched a glorious evening sunset.

Day 9

Sunday 19th June

Again we woke to another fine and sunny day, so we headed to the top of the Ulken-Kaindy pass on horseback to appreciate some of the higher elevation alpines in the nature reserve. After a filling breakfast and a lesson on how to control your horse, we saddled up and mounted our docile horses, setting off up the mountain in convoy. We rode through the alpine meadows, full of colour and with the scrub full of singing Whitethroats and Nightingales. The horses easily allowed us to reach our destination; a flower-rich alpine plateau with outstanding views over the Tien Shan range into the heart of Aksu-Dzhabagly nature reserve. With patches of snow only just clearing, the turf was ablaze with colour from thousands of blooming tulips. Masses of yellow and red *Tulipa kaufmanniana* were in bloom, with good number of the slightly smaller *Tulipa dasystemonoides*, and the deeper-soiled hollows of the plateau were covered in yellow *Allium fedtschenkoanum* and stunning orange carpets of *Trollius altaicus*. On the exposed stony ridgeline, cushions of super-floriferous *Androsace sericea* were joined by *Aster alpinus*, *Gagea filiformis*, *Lindelofia tschimganica* and *Pyrethrum pyrethroides*.

Lunch was enjoyed overlooking snow-capped peaks, the realm of the Snow Leopard, but despite our best efforts of looking for them, a view of one would have been in reality a very remote opportunity. A pair of Black Vultures circled overhead, Lammergeier drifted over and Hobbies hawked for insects over the sheltered slopes. After lunch we opted to travel back to our mountain house on foot exploring the flora on our descent. The south-facing screes contained a range of interesting plants; prickly pink Oxytropis echidna, Allium karataviense and Macrotomia euchroma. Our botanising in this area inadvertently flushed three Himalayan Snowcock, Chukar with chicks and a roosting European Nightjar. By late afternoon we paused to rest in a meadow above our lodgings, taking in the scenery and plants in the afternoon sun. With the day drawing in, we headed back the short distance to have an evening meal and a well-earned rest.

Day 10

Monday 20th June

It was our final day within the core of Aksu-Dzhabagly nature reserve, which started sunny and cloudless again, boding well for another enjoyable day of botanising. Common Myna, Oriental Turtle Dove and White-crowned Penduline Tit were all busy with nesting around our mountain cabin and we found *Pyrola rotundifolia* on the banks for the nearby stream where we gathered our water. After breakfast we packed our bags to be picked up by 4WD, along with a couple of members of the group who were feeling a little tired. The rest of us set off back down the river valley through the flower-filled meadows with the dramatic peaks surrounding us. Good displays of *Delphinium confusum* lined our route and a number of *Iris sogdiana* were still blooming, keeping *Iris*-enthusiast Ken happy.

The meadows lifted with butterflies of various species and White-winged Grosbeaks and White-capped Buntings flitted around in the *Juniperus polycarpos* var. *seravshanica* scrub. By midday we approached our lunch spot at Kshi-Kaindy mountain house where we found *Morina kokanica* and *Polygonatum severzovii*. We met up with the rest of the

group and had lunch, before most of us took the 4WD back to our guesthouse in Zhabagly. Robert, Patricia and Sheila opted to walk the final 7km back to the village. Following a relaxing afternoon at our guesthouse, we completed the daily plant list and had our evening meal before a relaxing night's sleep.

Day 11

Tuesday 21st June

On our final day exploring Aksu-Dzhabagly nature reserve, we headed slightly east to visit Aksu Gorge. The Central Asian Biodiversity Project picked us up in their 4WD minibus to visit this part of the nature reserve. As we climbed up a rough track from the steppe, we were paused from proceeding due to excavators widening and rerouting our track. After a short wait and a good deal of use of the minibus horn, we proceeded to visit the higher-elevation steppe plateau above that gave commanding views across the plains and broad valley towards the Karatau Mountains. Behind us were the high snow-capped peaks of the Tien Shan.

The Mediterranean flora had been out for a few weeks here, but there were still some blooms left on show. *Cousinia umbrosa, Centaurea squarrosa*, *Rosa maracandia* and *Rosa nanothamnus* were all in bloom and the seed heads of various bulbs were much in evidence, including *Ungernia sewerzowii*, *Tulipa greigii* and *Tulipa bifloriformis*. Plant of the of the day for many was the beautiful rose-relative, *Rosa persica* with its distinctive, deep red inner and rich yellow outer areas of the petals. We continued on for a short distance before reaching Aksu Gorge where we had our picnic lunch in the garden of the reserve base. After lunch we took a short walk around the edge of the impressive gorge, descending a short way into it to find a range of plants. Floriferous cushions of Campanula-relative *Sergia sewerzowii* were clinging to the warm rocks, as was the intriguing yellow *Scutellaria immaculata*. On the warm, gently sloping rocky slopes of the gorge grew yellow *Allium eriocoleum*, robust bushy *Salvia sclarea* with its distinctive pink flowers and bracts, plus a pink and thorny member of the Goosefoot family, *Rhaphidophyton regelii*. As we ascended back to the top, we watched a pair of Hobbies feeding on the large number of dragonflies hawking over the slopes.

By late afternoon we headed back to our hotel to have an early evening meal and shower, before going to the local station to catch the overnight sleeper train back to Almaty.

Day 12

Wednesday 22nd June

After our arrival on our overnight sleeper into Almaty, we were picked up and taken to our hotel where we would spend our final night in Kazakhstan. After a filling breakfast, we headed back up into the foothills of the Tien Shan at the edge of Ile-Alatau National Park to visit the garden and nursery of our local guide and botanist Vladimir. The road left the suburbs of Almaty below and wound its way up through the lush vegetation and forest to reach our destination, giving us great views over the city and bigger peaks of the Tien Shan.

The half-hectare sloping plot, located at about 1,500m, was a real plantsman's garden with a vast array of choice trees, shrubs, perennials and bulbs, many of which were endemic to Kazakhstan and nearby parts of central Asia. Squeezed in were some 600 conifers and their cultivars including *Abies semenovii* 'Epiktetov', found by Vladimir in Kyrgyzstan in 2011. Another native apple to Kazakhstan, *Malus nidwetzkiana* was also of interest to the group with its distinct pink flower (although this specimen had finished blooming) and bright pink seeds inside the apple. Bulbous flora is a particular interest of Vladimir's and he had an impressive collection of 20 species of *Tulipa* and over 200 *Allium* taxon, 60 of which are native to Kazakhstan, including one he showed us that was new to science

and yet to be fully described. Mingled in one of the beds, we found *Hepatica falconerii*, a Kazakh red book species and a wonderful early spring woodlander.

A generous lunch spread was enjoyed in Vladimir's open, yet sheltered tea house, nestled in the garden beneath the shade of Birches and other specimen trees. Over lunch we recounted our enjoyable memories of the trip, species highlights and best finds. It was also at this point of the trip that we were to have to say our farewells to Vladimir who had joined us for the entire trip, bringing a wealth of local and botanical knowledge and patience to boot. With contact details shared, we headed back onto the bus and made our way back down the hillside into the centre of Almaty where we visited a local part of the city, with a colourful Russian Orthodox church and imposing war memorial commemorating Kazakh lives lost during the war. With the day drawing to a close, we headed back to our city-centre hotel where we enjoyed a fantastic final 3-course meal and recounted further memories of the trip.

Day 13

Thursday 23rd June

With a reasonably early flight from Almaty back to London, via Istanbul, we were picked up in the small hours of the morning by Amelia and our driver for the short journey to the airport. With us all checked in, we said goodbye to Amelia before settling into the departure lounge to await our departure. Novelty items bought in duty free, we said our farewells to Pat and Robert who were heading to Manchester, before we boarded the plane for a good journey back to the UK.



Aster alpinus

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Species Lists

Plants

Scientific Name Location

POLYPODIOPSIDA - FERNS

Aspleniaceae - Spleenwort Family

Asplenium septentrionale IIe-Alatau National Park
Asplenium trichomanes IIe-Alatau National Park
Asplenium viride IIe-Alatau National Park

Dryopteridaceae

Dryopteris filix-mas Common throughout Dryopteris fragilis Ile-Alatau and Ulken-Kaindy

Equisetaceae - Horsetail Family

Equisetum ramosissimum Big Almaty Lake

Ophioglossaceae - Adder's-tongue Family

Botrychium lunaria Big Almaty Lake

PINOPSIDA (GYMNOSPERMS) - CONIFERS

Cupressaceae - Cypress Family

Juniperus pseudosabinaCommon, Ile-Alatau National ParkJuniperus polycarpos var. seravschanicaCommon, Aksu-Dzhabagly nature reserve

Juniperus sibirica Common throughout.

Ephederaceae - Ephedra Family

Ephedra equisetina Aksu Gorge
Ephedra regeliana Big Almaty Lake

Pinaceae - Pine family

Picea schrenkiana Common pine in mountains

MAGNOLIOPSIDA - FLOWERING PLANTS

Magnoliidae (Dicotyledons)

Apiaceae - Carrot Family

Angelica brevicaulis Cosmostation, Ile-Alatau National Park Angelica archangelica subsp decurrens Above Alpine Rose guesthouse, Ile-Alatau NP Anthriscus sylvestris Above Alpine Rose guesthouse, Ile-Alatau NP Ferula penninervis Kshi-Kaindy, Aksu-Dzhabagly nature reserve Ferula renardii Ulken-Kaindy, Aksu-Dzhabagly nature reserve Ferula tenuisecta Kshi-Kaindy, Aksu-Dzhabagly nature reserve Mediasia macrophylla Ulken-Kaindy, Aksu-Dzhabagly nature reserve Prangos pabularia Kshi-Kaindy, Aksu-Dzhabagly nature reserve

Turgenia latifolia Kok Sai canyon

Asteraceae - Daisy Family

Achillea filipendulina Kshi-Kaindy, Aksu-Dzhabaqly nature reserve

Alphredia nivea Big Almaty Lake

Artemisia aschurbajevii Cosmostation, Ile-Alatau National Park
Aster alpinus Big Almaty Lake, Ulken-Kaindy Pass

Centaurea besseriana (squarrosa) Aksu Gorge Centaurea depressa Kok Sai Gorge

Centaurea ruthenica Near debris dam, Almaty

Cousinia fetissowii Ulken-Kaindy, Aksu-Dzhabagly nature reserve

Cousinia microcarpaAksu GorgeCousinia minkwitziaeAksu GorgeCousinia umbrosaAksu GorgeDoronicum turkestanicumBig Almaty Lake

Echinops chantavicus Near debris dam, Almaty

Kok Sai Gorge & Ulken-Kaindy Valley Echinops tschimganicus Erigeron auraniticus Ile-Alatau National Park Handelia trichophylla Kok Sai Gaorge

Helichrysum maracandicum Kok Sai Gorge, Aksu Gorge

Inula macrophylla Near debris dam, Almaty Inula rhizocephala Ile-Alatau National Park

Leontopodium fedtschenkoanum Ile-Alatau National Park & Ulken Kaindy

Leontopodium ochroleucum Big Almaty Lake Ligularia heterophylla Ile-Alatau National Park Ligularia macrophylla Ile-Alatau National Park Ligularia talassica Ulken-Kaindy, Aksu-Dzhabagly nature reserve

Ligularia thomsoni Kshi-Kaindy, Aksu-Dzhabagly nature reserve Pyrethrum pyrethroides Ulken-Kaindy, Aksu-Dzhabagly nature reserve Pyrethrum tienschanicum Ulken-Kaindy, Aksu-Dzhabagly nature reserve

Schmalhausenia nidulans Observation Station, Ile-Alatau National Park Tanacetum santolina Aksu Gorge

Ile-Alatau National Park Taraxacum pseudoroseum

Berberidaceae - Berberis Family

Berberis oblonga Kshi-Kaindy, Aksu-Dzhabagly nature reserve

Betulaceae - Birch Family

Betula pendula Big Almaty Lake Betulla tienshanica Ile-Alatau National Park

Boraginaceae - Borage Family

Echium vulgare Near debris dam, Almaty

Eritrichium tianschanicum Cosmostation, Ile-Alatau National Park

Big Almaty Lake Lappula sp.

Lindelofia macrostyla Kshi-Kaindy, Aksu-Dzhabagly nature reserve Lindelofia tschimganica Ulken-Kaindy, Aksu-Dzhabagly nature reserve Macrotomia ugamensis Ulken-Kaindy, Aksu-Dzhabagly nature reserve Ulken-Kaindy, Aksu-Dzhabagly nature reserve

Macrotomia euchroma

Myosotis asiatica Big Almaty Lake Aksu Gorge Onosma dichronotha

Brassicaceae - Cabbage Family

Barbarea vulgaris Ile-Alatau National Park Brassica elongata Kok Sai Gorge Chorispora bungeana Ile-Alatau National Park

Draba altaica Cosmostation, Ile-Alatau National Park Draba oreades Cosmostation, Ile-Alatau National Park

Erysimum croceum Big Almaty Lake Eutrema (Taphrospermum) altaicum Cosmostation, Ile-Alatau National Park Eutrema integrifolium Ile-Alatau National Park Ile-Alatau National Park Isatis costata Cosmostation, Ile-Alatau National Park Smelowskia calycina

Turritis glabra Ile-Alatau National Park

Campanulaceae - Bellflower Family

Asyneuma argutum Kshi-Kaindy, Aksu-Dzhabagly nature reserve Campanula alberti Ulken-Kaindy, Aksu-Dzhabagly nature reserve Campanula glomerata Ile-Alatau National Park Ulken-Kaindy, Aksu-Dzhabagly nature reserve Campanula capusii Codonopsis clematidea Aksu-Dzhabagly & Ile-Alatau NP

Sergia sewerzowii Aksu Gorge

Caprifoliaceae - Honeysuckle Family

Lonicera hispida Ile-Alatau National Park Lonicera humilis Cosmostation, Ile-Alatau National Park Lonicera karelinii Ile-Alatau National Park Ile-Alatau National Park Lonicera olgae Lonicera semenovii Cosmostation, Ile-Alatau National Park Lonicera stenantha Big Almaty Lake

Caryophyllaceae - Pink Family

Cerastium cerastoides Ile-Alatau National Park
Cerastium davuricum (dahuricum) Ile-Alatau National Park

Dianthus hoeltzeri Kshi-Kaindy, Aksu-Dzhabaqly nature reserve

Dianthus tetralaevis Kok Sai Gorge

Herniaria glabra
Minuartia biflora
Ille-Alatau National Park
Ille-Alatau National Park
Ille-Alatau National Park
Big Almaty Lake
Silene brahuica
Silene graminifolia
Silene wallichiana
Ille-Alatau National Park
Big Almaty Lake
Kok Sai Gorge
Big Almaty Lake
Big Almaty Lake

Stellaria soongorica Ile-Alatau National Park

Thylacospermum caespitosum Cosmostation, Ile-Alatau National Park

Chenopodiaceae - Goosefoot Family

Rhaphidophyton regelii Aksu Gorge

Convolvulaceae - Bindweed Family

Convolvulus arvensis Aksu Gorge

Convolvulus lineatus Kok Sai Gorge, Kshi-Kaindy, Aksu-Dzhagley

Crassulaceae - Stonecrop Family

Rhodiola coccinea Cosmostation, Ile-Alatau National Park

Rhodiola linearifolia Ile-Alatau National Park Rosularia alpestris Ile-Alatau National Park

Rosularia glabra Aksu Gorge Sedum alberti Kok Sai Gorge Sedum ewersii Big Almaty Lake

Sedum hybridum Ile-Alatau National Park

Dipsacaceae - Teasel Family

Scabiosa micrantha Kok Sai Gorge Scabiosa soongorica Kok Sai Gorge

Euphorbiaceae - Spurge Family

Euphorbia alatavica Cosmostation, Ile-Alatau National Park
Euphorbia humilis Ulken-Kaindy, Aksu-Dzhabagly nature reserve
Euphorbia pachyrrhiza Ile-Alatau National Park

Fabaceae - Pea Family

Astragalus alatvicus Big Almaty Lake
Astragalus alpinus Ile-Alatau National Park

Astragalus lithophilus Cosmostation, Ile-Alatau National Park

Hedysarum acutifolium Kshi-Kaindy, Aksu-Dzhagley

Hedysarum flavescens Ulken-Kaindy, Aksu-Dzhabagly nature reserve

Lathyrus gmelinii Ile-Alatau National Park

Onobrychis chorassanica Kok Sai Gorge

Onobrychis echidna
Ulken-Kaindy, Aksu-Dzhabagly nature reserve
Oxytropis albovillosa
Ulken-Kaindy, Aksu-Dzhabagly nature reserve

Oxytropis brachycarpa Big Almaty Lake

Oxytropis chionobia Cosmostation, Ile-Alatau National Park

Oxytropis globifloraIle-Alatau National ParkOxytropis lapponicaIle-Alatau National ParkThermopsis alpinaBig Almaty Lake

Trifolium pratense IIe-Alatau National Park
Trifolium repens IIe-Alatau National Park
Vicia sepium IIe-Alatau National Park

Fumariaceae - Fumitory Family

Corydalis gortschakovii Ulken-Kaindy, Aksu-Dzhabagly nature reserve

Gentianaceae - Gentian Family

Gentiana karelinii Big Almaty Lake Gentiana olivieri Kok Sai Gorge

Geraniaceae - Geranium Family

Geranium rectum Ile-Alatau National Park Geranium saxatile Ile-Alatau National Park

Grossulariaceae - Gooseberry Family

Ribes meyeri Big Almaty Lake

Lamiaceae - Dead-nettle Family

Dracocephalum diversifolium Kok Sai Gorge

Dracocephalum grandiflorum Cosmostation, Ile-Alatau National Park

Dracocephalum nutans

Lamium album

Mentha asiatica

Nepeta nuda (pannonica)

Origanum vulgare ssp gracilis (tyttanthum)

Phlomoides oreonbila

Ile-Alatau National Park

Near debris dam, Almaty

Kshi-Kaindy, Aksu-Dzhagley

Kshi-Kaindy, Aksu-Dzhagley

Phlomoides oreophila Ile-Alatau National Park
Phlomoides pratensis Ile-Alatau National Park
Phlomis salicifolia Kshi-Kaindy, Aksu-Dzhagley

Phlomis tianschanicum Ulken-Kaindy, Aksu-Dzhabagly nature reserve

Salvia aethiops Aksu Gorge

Salvia deserta Near debris dam, Almaty

Salvia sclareaAksu GorgeScutellaria immaculataAksu GorgeScutellaria lanipesKok Sai Gorge

Stachyopsis lamiiflora Ile-Alatau National Park

Thymus karatavicus Kok Sai Gorge

Thymus seravschanicus Ile-Alatau National Park

Ziziphora bungeana Big Almaty Lake

Linaceae - Flax Family

Linum olgae Kshi-Kaindy, Aksu-Dzhagley

Linum pallescens Kok Sai Gorge

Malvaceae - Mallow Family

Alcea nudiflora Common, Aksu-Dzhabagly nature reserve

Morinaceae - Morina Family

Morina kokanica Kshi-Kaindy, Aksu-Dzhagley

Onagraceae - Willowherb Family

Epilobium (Chamerion) angustifolium Big Almaty Lake Epilobium (Chamerion) latifolium Big Almaty Lake

Papaveraceae - Poppy Family

Glaucium squamigerum Big Almaty Lake
Papaver croceum Ile-Alatau National Park

Roemeria refracta Kok Sai Gorge

Polemoniaceae - Phlox Family

Polemonium caucasicum Ile-Alatau National Park

Polygalaceae - Milkwort Family

Polygala hybrida Ile-Alatau National Park

Polygonaceae - Dock Family

Oxyria digyna Ile-Alatau National Park Polygonum alpinum Ile-Alatau National Park

Polygonum coriarium Ulken-Kaindy, Aksu-Dzhabagly nature reserve

Polygonum ellipticum (nitens)

Ile-Alatau National Park
Polygonum rupestre
Polygonum songaricum
Rheum tianschanicus
Rheum wittrockii
Rumex tianschanicus
Ile-Alatau National Park
Ile-Alatau National Park
Ile-Alatau National Park
Ile-Alatau National Park
Rumex tianschanicus
Ile-Alatau National Park

Primulaceae - Primula Family

Androsace lehmanniana Cosmostation, Ile-Alatau National Park

Androsace septentrionalis Ile-Alatau National Park

Androsace sericea Ulken-Kaindy, Aksu-Dzhabagly nature reserve

Primula algida Common, Ile-Alatau National Park

Primula kaufmaniana Ile-Alatau National Park Primula matthioli ssp. brotheri Ile-Alatau National Park

Primula matthioli ssp. turkestanica Aksu-Dzhabagly nature reserve Ulken-Kaindy, Aksu-Dzhabagly nature reserve

Primula minkwitziae

Pyrolaceae - Wintergreen Family

Pyrola rotundifolia Ulken-Kaindy, Aksu-Dzhabagly nature reserve

Ranunculaceae - Buttercup Family

Aconitum leucostomum Ile-Alatau NP & near debris dam, Almaty Aconitum talassicum Ulken-Kaindy, Aksu-Dzhabagly nature reserve Adonis aestivalis Ulken-Kaindy, Aksu-Dzhabagly nature reserve

Anemone narcissiflora ssp. protracta Ile-Alatau NP & Ulken-Kaindy

Ile-Alatau National Park & Aksu-Dzhabagly Aquilegia atrovinosa

Atragene sibirica Ile-Alatau National Park

Callianthemum alatavicum Cosmostation, Ile-Alatau National Park Delphinium confusum Ulken-Kaindy, Aksu-Dzhabagly nature reserve

Isopyrum (Paropyrum) anemonoides Ile-Alatau National Park

Oxygraphis glacialis Cosmostation, Ile-Alatau National Park Below cosmostation, Ile-Alatau National Park Paraquilegia anemonoides Paraguilegia caespitosa Ulken-Kaindy, Aksu-Dzhabagly nature reserve Pulsatilla campanella Ile-Alatau National Park & Aksu-Dzhabagly

Cosmostation, Ile-Alatau National Park Ranunculus alberti Ranunculus polyrhizus Ile-Alatau National Park

Ranunculus repens Cosmostation, Ile-Alatau National Park

Thalictrum flavum Ulken-Kaindy, Aksu-Dzhabagly nature reserve Thalictrum minus

Big Almaty Lake Trollius altaicus

Ulken-Kaindy, Aksu-Dzhabagly nature reserve Ile-Alatau National Park & Aksu-Dzhabagly Trollius dschungaricus Trollius lilacinus Cosmostation, Ile-Alatau National Park

Rosaceae - Rose Family

Agrimonia asiatica Near debris dam, Almaty Alchemilla sibirica Ile-Alatau National Park & Aksu-Dzhabagly Cerasus erythrocarpa Aksu Gorge

Crataegus turkestanica Kshi-Kaindy, Aksu-Dzhabagly nature reserve

Fragaria vesca Ile-Alatau National Park Geum rivale Ile-Alatau National Park & Aksu-Dzhabagly

Ile-Alatau National Park & Aksu-Dzhabagly Malus sieversii Potentilla asiatica Ile-Alatau National Park

Potentilla evistita Ile-Alatau National Park Potentilla multifida Ile-Alatau National Park

Potentilla orientalis Aksu Gorge

Prunus (Padus) mahaleb Kshi-Kaindy, Aksu-Dzhabagly nature reserve Rosa albertii Ulken-Kaindy, Aksu-Dzhabagly nature reserve

Rosa fedtschenkoana Ile-Alatau National Park

Ulken-Kaindy, Aksu-Dzhabagly nature reserve Rosa hissarica Rosa kokanica Kshi-Kaindy, Aksu-Dzhabagly nature reserve

Rosa maracandica Aksu Gorge Rosa nanothamnus Aksu Gorge Rosa persica Aksu Gorge

Rosa platyacantha Near debris dam, Almaty Rubus idaeus Ile-Alatau National Park

Sibbaldia tetrandra Cosmostation, Ile-Alatau National Park

Sorbus persica Kok Sai Gorge

Sorbus tianschanica Ile-Alatau National Park

Spirea pilosa Kshi-Kaindy, Aksu-Dzhabagly nature reserve

Rubiaceae - Bedstraw Family

Galium verum Kshi-Kaindy, Aksu-Dzhabagly nature reserve

Rutaceae - Rue Family

Dictamnus albus Almaty debris dam & Kshi-Kaindy, Aksu-Dzhabagly

nature reserve

Saxifragaceae - Saxifrage Family

Chrysosplenium nudicauleCosmostation, Ile-Alatau National ParkSaxifraga macrocalyxCosmostation, Ile-Alatau National ParkSaxifraga oppositifoliaCosmostation, Ile-Alatau National Park

Saxifraga sibirica Ile-Alatau National Park

Scrophulariaceae - Figwort Family

Bungea vesiculifera Aksu Gorge
Euphrasia bajancolica Big Almaty Lake

Lagotis integrifolia Above observation station, Ile-Alatau NP

Pedicularis dolichorrhiza Ile-Alatau National Park Pedicularis macrophilla Ile-Alatau National Park

Pedicularis oederiAbove observation station, Ile-Alatau NPPedicularis pubifloraCosmostation, Ile-Alatau National ParkPedicularis violascensCosmostation, Ile-Alatau National ParkPhinantham the state of the properties of th

Rhinanthus songaricus Ulken-Kaindy, Aksu-Dzhabagly nature reserve

Scrophularia kiriloviana Big Almaty Lake

Valerianaceae - Valerian Family

Patrina intermediaBig Almaty LakeValeriana turkistanicaBig Almaty Lake

Violaceae - Violet Family

Viola altaica Ile-Alatau National Park

Viola biflora Ulken-Kaindy, Aksu-Dzhabagly nature reserve

Viola rupestris Ile-Alatau National Park

Viola tianschanica Cosmostation, Ile-Alatau National Park

Liliidae (Monocotyledons)

Amaryllidaceae - Daffodil Family

Ungernia sewerzowii Aksu Gorge (in seed)

Asparagaceae -

Polygonatum sewerzowii Ulken-Kaindy, Aksu-Dzhabagly nature reserve

Asphodelaceae - Asphodel Family

Eremurus altaicus Ile-Alatau National Park

Eremurus regelii Ulken-Kaindy, Aksu-Dzhabagly nature reserve

Eremurus robustus Near debris dam, Almaty

Eremurus tianschanicus Almaty debris dam & Kok Sai Gorge

Iridaceae - Iris Family

Iris alberti Almaty debris dam & Aksu-Dzhabagly nature reserve (in

seed)

Iris halophila var. sogdiana (I. sogdiana) Aksu-Dzhabagly nature reserve

Iris willmottiana Kok Sai Gorge & Ulken-Kaindy (in seed)

Ixioliriaceae

Ixiolirion tataricum Ulken-Kaindy, Aksu-Dzhabagly nature reserve

Liliaceae - Lily Family

Allium atrosanguineum Cosmostation, Ile-Alatau National Park

Allium barsczeweskiiKok Sai GorgeAllium caesiumKok Sai GorgeAllium caeruleumKok Sai GorgeAllium eriocoleumAksu Gorge

Allium drobovii Near debris dam, Almaty

Allium fedtschenkoanumUlken-Kaindy, Aksu-Dzhabagly nature reserveAllium fetisowiiUlken-Kaindy, Aksu-Dzhabagly nature reserveAllium hymenorhizumKshi-Kaindy, Aksu-Dzhabagly nature reserveAllium karatavienseUlken-Kaindy, Aksu-Dzhabagly nature reserve

Allium oreophyllum Ulken-Kaindy, Aksu-Dzhabagly nature reserve

Allium pallasii Near debris dam, Almaty

Allium carolinianum (polyphyllum) Ulken-Kaindy, Aksu-Dzhabagly nature reserve

Allium schoenoprasoides Ile-Alatau National Park

Fritillaria stenantheraUlken-Kaindy, Aksu-Dzhabagly (seed)Fritillaria swerzowiiUlken-Kaindy, Aksu-Dzhabagly (seed)Gagea emarginataCosmostation, Ile-Alatau National ParkGagea filiformisUlken-Kaindy, Aksu-Dzhabagly nature reserve

Gagea serotina Common, Ile-Alatau National Park
Gagea turkestanica Cosmostation, Ile-Alatau National Park

Tulipa bifloriformis Aksu Gorge (seed)

Tulipa dasystemonCosmostation, Ile-Alatau National ParkTulipa dasystemonoidesUlken-Kaindy, Aksu-Dzhabagly nature reserve

Tulipa greigii Aksu-Dzhabagly (common, in seed)
Tulipa heterophylla Cosmostation, Ile-Alatau National Park
Tulipa kaufmanniana Ulken-Kaindy, Aksu-Dzhabagly nature reserve

Orchidaceae - Orchid Family

Dactylorhiza umbrosa Big Almaty Lake & Kshi-Kaindy

Dactylorhiza (Coeloglossum) viridis Big Almaty Lake Goodyera repens Ile-Alatau National Park

Birds

Himalayan Snowcock Tetraogallus himalayensis

Three birds flushed from slope on decent from Ulken-Kaindy pass back to mountain house.

Chukar Alectoris chukar

Heard and seen high in Ulken-Kaindy valley, Aksu-Dzhabagly Nature Reserve. Adult with chicks seen just below Ulken-Kaindy pass.

Common Pheasant Phasianus colchicus

Heard and seen around Aksu-Dzhabagly Nature Reserve

Quail Coturnix coturnix

Heard daily at Ulken-Kaindy in Aksu-Dzhabagly Nature Reserve.

Ruddy Shelduck Tadorna ferruginea

Six birds on Big Almaty Lake and one in the Kok Sai Gorge.

Black Stork Ciconia nigra

One bird flying through the Kok Sai Gorge.

Black Kite Milvus migrans

4 seen from the train after leaving the Almaty region

Bearded Vulture Gypaetus barbatus

1 over Big Almaty lake area and 1 over Ulken-Kaindy pass

Egyptian Vulture Neophron percnopterus

1 over the Kok Sai Gorge

Himalayan Griffon Vulture Gyps himalayensis

1 over the Ulken-Kaindy pass

Cinereous Vulture Aegypius monachus

3 over the Kshi-Kaindy pass

Short-toed Snake Eagle Circaetus gallicus

Single bird hunting in Aksu Gorge

Shikra Accipiter badius

Two on steppe outside Almaty.

Common Buzzard Buteo buteo

One above Alpine Rose Guesthouse.

Golden Eagle Aquila chrysaetos

One above the observation station near Big Almaty Lake.

Lesser Kestrel Falco tinnunculus naumanni

Three outside Tulkubas.

Eurasian Kestrel Falco tinnunculus tinninculus

Almost daily.

Eurasian Hobby Falco subbuteo subbuteo

1 on way to Kshi-Kaindy, a pair over the Ulken-Kaindy pass and a pair hawking dragonflies over the Aksu Gorge.

Saker Falcon Falco cherrug

1 near Ulken-Kaindy.

Ibisbill Ibidorhyncha struthersii

A pair at Big Almaty Lake.

Feral Pigeon Columba livia neglecta

Seen daily

Common Woodpigeon Columba palumbus

2 seen near Almaty and 6 in the Ulken-Kaindy valley.

Oriental Turtle Dove Streptopelia (orientalis) meena

Almost daily.

Laughing Dove Streptopelia senegalensis

Daily around Zhabagly village.

Eurasian Collared Dove Streptopelia decaocto stoliczkae

Single in Zhabagly.

Common Cuckoo Cuculus canorus

Heard or seen daily.

Eurasian Scops Owl Otus scops

Calling each evening in Zhabagly village.

European Nightjar Caprimulgus europaeus

One put up Ulken-Kaindy valley quite high up on sparse screes.

European Roller Coracias garrulous semenowi

Very common on wires, around Zhabagly village and Aksu-Zhabagly.

European Bee-eater Merops apiaster

Seen on the wires along the railway line from Almaty.

Long-tailed Shrike Lanius schach erythronotus

A single bird was present outside Zhabagly village.

Lesser Grey Shrike Lanius minor

At least 4 around Zhabagly village.

Eurasian Golden Oriole Oriolus oriolus

3 on walk out to Kshi-Kaindy.

Magpie Pica pica bactriana

Daily with exception of Aksu-Dzhabagly nature reserve.

Spotted Nutcracker Nucifraga caryocatactes

Heard calling in pines around the Alpine Rose Guesthouse.

Alpine Chough Pyrrhocorax graculus

Good numbers around the Cosmostation and half a dozen at the Ulken-Kaindy pass.

Red-billed Chough Pyrrhocorax pyrrhocorax centralis

Two near the Cosmostation.

Jackdaw Corvus monedula soemmerringii

Mixed in the huge flocks of corvids seen from the train and numerous around Zhabagly village.

Carrion Crow Corvus corone

Common most days but less numerous around Ulken-Kaindy.

Common Raven Corvus corax

Most days around Ile-Alatau National Park.

Great Tit Parus major

4 around Alpine Rose Guesthouse and several in the Aksu Gorge.

Yellow-breasted Tit Cyanistes flavipectus

A pair around Ulken-Kaindy.

White-crowned Penduline Tit Remiz coronatus

Heard near Big Almaty Lake and daily around the Ulken-Kaindy area.

Calandra Lark Melanocorypha calandra

On steppe at Kok Sai and Aksu gorges.

Barn Swallow Hirundo rustica

Common around Zhabagly village.

White-browed Tit Warbler Leptopoecile sophiae

An obliging pair near Big Almaty Lake in Juniper scrub.

Hume's Leaf Warbler Phylloscopus humei

Common in and around both Ile-Alatau National Park and Aksu-Zhabagly Nature Reserve.

Hume's Whitethroat Sylvia althaea

2 near Big Almaty Lake.

Common Whitethroat Sylvia communis

Singing near Alpine Rose Guesthouse and Common in Aksu-Zhabagly Nature Reserve.

Eurasian Wren Troglodytes troglodytes

Near Big Almaty Lake.

Common Myna Acridotheres tristis

Regularly encountered usually around habitations.

Common Starling Sturnus vulgaris porphyronotu

Odd pair around Zhabagly village.

Rose-coloured Starling Sturnus roseus

Flocks common on the steppe plus around Zhabagly village and both Kok Sai and Aksu Gorges.

Blue Whistling Thrush Myophonus caeruleus

One singing around the Alpine Rose Guesthouse.

Eurasian Blackbird Turdus merula intermedius

Several birds seen throughout the trip.

Mistle Thrush Turdus viscivorus bonapartei

Single bird near Alpine Rose Guesthouse and several birds around Aksu-Zhabaqly Nature Reserve

Himalayan Rubythroat Luscinia pectoralis

Bird in Juniper scrub below the observation station.

Common Nightingale Luscinia megarhynchos

Regularly singing in scrub around Aksu-Dzhabagly Nature Reserve.

Güldenstadt's Redstart Phoenicurus erythrogaster

Pair around Big Almaty lake.

Siberian (Common) Stonechat Saxicola maurus

Several pairs around Ulken-Kaindy, Aksu-Dzhabagly Nature Reserve.

Northern Wheatear Oenanthe oenanthe

A single pair at the Cosmostation.

Common Rock Thrush Monticola saxatilis

A pair with young at the top of the Ulken-Kaindy valley.

House Sparrow Passer domesticus domesticus

Almaty and Zhagably village.

Eurasian Tree Sparrow Passer montanus dilutus

Zhagably village.

Brown Accentor Prunella fulvescens

One by the observation station.

Black-throated Accentor Prunella atrogularis

Numerous birds in Juniper scrub and pines around Big Almaty lake and up to the observation station. 2 at Ulken-Kaindy pass.

Grey Wagtail Motacilla cinerea

Single bird by the Cosmostation.

'Masked' (White) Wagtail Motacilla (alba) personata

Numerous in Almaty, and Zhabagly village and surrounding area.

Tawny Pipit Anthus campestris

Single bird in the Kok Sai Gorge.

Tree Pipit Anthus trivialis

Numerous birds around the Alpine Rose Guesthouse.

Water Pipit Anthus spinoletta

One bird near the observation station.

Red-fronted Serin Serinus pusillus

Common in Ile-Alatau National Park.

Grey-headed' (European) Goldfinch Carduelis carduelis

Common throughout the trip.

Common Rosefinch Carpodacus erythrinus ferghanensis

Two in the Ulken-Kaindy valley.

Red-mantled Rosefinch Carpodacus rhodochlamys

Two below Big Almaty Lake.

White-winged Grosbeak Mycerobas carnipes

A pair above Big Almaty Lake, single above the observation station and several birds around Ulken-Kaindy.

Corn Bunting Miliaria calandra buturlini

Zhabagly village outskirts and up to high alpine meadows in Aksu-Zhabagly Nature Reserve.

Rock Bunting Emberiza cia par

Common high on the rocky areas above Ulken-Kaindy, Aksu-Zhabagly Nature Reserve

White-capped Bunting Emberiza stewarti

Single bird around Kshi-Kaindy.

Red-headed Bunting Emberiza bruniceps

Common around Kok Sai and Aksu Gorges as well as throughout Aksu-Zhabagly Nature Reserve.

Mammals

Red Squirrel Sciurus vulgaris

Regular around the Alpine rose Guesthouse, single near Big Almaty Lake and within the urban parks of Almaty.

Grey Marmot Marmota baibacina

Several animals around the observation station area of Ile-Alatau National Park.

Red Fox Vulpes vulpes

Single above the observation station.

Stoat Mustela erminea

Single above the observation station.

Siberian Ibex Capra sibirica

Ten plus animals above the Ulken-Kaindy valley.

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Ligularia macrophylla overlooking Big Almaty Lake



Allium polyphyllum



Trollius lilacinus