

Estonia

Butterflies & Bogs

A Greentours Trip Report

15th – 24th July 2004

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Daily Reports by Amanda Borrows and Ian Green

Day 1 Thursday 15th July To Kohala

We all arrived into a rainy Tallinn though the sun was soon shining as we headed north-east of the bustling medieval city, along the A1 towards the city of St. Petersburg. The drive took us through boreal pine forests and past grass verges displaying colourful flowers. As we drove down the oak lined drive, we were confronted by a spectacular manor house, made even more grandiose by its colour – pink. Kohala Manor House is a 14th century wooden manor house that has recorded in documents since 1489. Apparently, the house is pink, as it is a bright and cheerful colour all the year round.

There was a quick chance to wander round the grounds before dinner, which was a basic Swedish style buffet. After which a few people went for an evening walk around the grounds. Sally, Peter and Henry, came back with tales of Lesser Spotted Eagle flying off with an animal in its talons, and a long list of plants to tantalise us with.

Day 2 Friday 16th July Lahemaa - Oandu – Altja & Latipea

The morning started with a few people out and about bird watching, or moth recording from the trap set last night. Over 50 species of moth were caught, including some excellent specimens such as Lilac Beauty, Eyed Hawk Moth, Pebble Hooktip, Peacock, Ghost Moth and Maple Prominent. Bird wise, Lesser Spotted Woodpecker, Marsh Warbler and Spotted Flycatcher gave good views.

It was a 9 o'clock start and we were heading north towards the oldest national park in Estonia, Lahemaa National Park. The national park was the first in the Soviet Union. It has approximately 838 plant species, and also boasts 50 mammals, among them brown bear, lynx, wild boar and elk, of which we saw recent evidence. The journey to the park, passed through traditional hay meadows, blooming with colour, and two Common Cranes, found by the keen eyes of Paul. Carrying on our journey the lanes and roadsides were decorated with the beautiful purple and yellow of *Melampyrum nemorosum*. We passed typical wooden Estonian buildings, some with thatched roofs,

whilst on the more modern corrugated iron roofs wooden ladders were placed along the edge of the roof. This was to push the snow away in the cold winters. The road margins also produced amazing displays of *Campanula* species including large *trachelium*, a beautiful plant, with very large bell flowers. We only found this species along a particular stretch of road in the Park.

We started our hunt for the various wondrous plants of Lahemaa National Park along the excellent Oandu trail, 3 – 4 km. A trail of diverse habitats, from the rich lichen understorey pine forests, to sandy heaths and dunes, with understorey of *Cladonia stellaris*, *Cladonia rangiferina*, *Cladonia digitata* and *Cetraria islandica*. There were various conversations of how the best shot could be achieved on the *Melampyrum pratense* and Twinflower, as the sun filtered through the trees. Other species found along the trail included large spikes of *Dactylorhiza fuchsii*, six different species of winter-green, *Pyrolas rotundifolia*, *media*, *minor*, *Orthilia secunda*, *Moneses unifolium* and *Pyrola norvegica*, the last of particular interest (see systematic list). We mustn't also forget the delicate Lesser Twayblade, *Impatiens noli-tangere* and *parviflora* around the bog edges, as well as *Potentilla palustris*, and this was the start of the sedge collection - there are some 70 species to look for! The interpretation boards gave some interesting facts about the various animals we may encounter, and what damage elk do to the surrounding trees. Unfortunately, there was little animal watching along this trail, but dragonflies such as *Aeshna grandis*, *Aeshna viridis* & *Calopteryx virgo* gave excellent views as they patrolled the various rides. Butterflies were thin on the ground, but there was a sighting of Cranberry Blue near the car park, a species that we had come to see.

After lunch we continued north towards the coast, for a few miles to the coast. This was a very popular swimming area for the local, and we found ourselves as a bit of a tourist attraction with the locals stopping and taking photos as we watched Goldeneye, Red-breasted Merganser, Eider, Cormorants basking, and Common and Arctic Terns quartering along the brackish water. This small fishing village, produced some exciting goodies such as our first Amanda's Blue and the beautiful Moorland Clouded Yellow, with its pink wing-liner. Small Tortoiseshell and Marsh Fritillary were also recorded feeding from the tops of *Knautia arvensis*. Walking back *Veronica spicata* and *chamaedrys* added a splash of colour to the yellows of *Linaria vulgaris*, *Ranunculus polyanthemus* and pinks of *Lychnis viscaria*, *Silene nutans*, *Silene dioica*, *Dianthus deltoides* along path verges.

We followed the coastal road east towards Latipea, another small coastal site with a huge variety of plants, invertebrates and birds. The main plant for this site was *Malaxis monophyllos*, a delicate green-flowered orchid, but *Dactylorhiza maculata* and Yellow Birds-nest also gave some lovely blooms. This was the only spot for the rare *Lathyrus japonicus*, in Estonia. The tiny Little Blue sat upon a huge carpet of Kidney Vetch, while *Cordulia aenea* and *Orthetrum cancellatum* allowed photographic views, but *Leucorrhinia pectoralis* and *Leucorrhinia albifrons* remained aloft and disappeared at the first sign of a lens. Sea watching produced Black-throated Diver, Lesser Black-backed Gull, Eider, Common and Arctic Tern and Mute Swan. This was also a good spot for the large bush cricket *Decticus verruivorus*, which was very common. Other grasshopper species included *Myrmeleotettix maculatus*, *Chorthippus biguttulus*, both species which are common on sandy heaths and the beautiful three spotted *Metrioptera brachyptera*. This was the only site that it was recorded from. We made our way back, stopping now and again to admire the occasional harrier or crane feeding in the fields, or just admiring the colourful displays of flowers along the roadside and trying to name them as we passed by. Tonight we were in for a treat; it was Tutor's Salad, Sergeant Major's Craving and Peppi Sophia's Sweetness, all very delightful and filling, nothing like traditional Estonian food.

Day 3 Saturday 17th July Kohala

This morning was busy. A 6am bird walk for those who were interested. At 7am it was time to check the moth traps, and breakfast at 8am for a 9am start. Breakfast was always an interesting affair as everyone waited to see what exciting names were on tonight's dinner menu. Tonight's dinner will be Barn-keepers Gift, Lieutenant's Sword and Margareths's Love.

Moths recorded today, included the beautiful Burnished Brass, Poplar Hawk, Cox-comb Prominent, Buff Ermine, and Bloomer's Rivulet, a species not found in England. This is surprising, as surely, only the Victorians would come up with a name like that! A Tawny Owl was heard again this morning, while Spotted Flycatchers zipped backwards and forwards from their spot. Common and Green Sandpiper were seen around the river, and Cranes were heard quite near honking away. There was also a good show of warblers, Icterine Warbler, Lesser and Common Whitethroat, Blackcap and Chiffchaff.

In the morning we made our way north, passing over the river and turning left, towards the Corncrake field. Along the walk our attention was taken up with the many blue and white butterflies that were bouncing or rapidly dashing along the track. There were several cameras clicking away, when the butterflies allowed themselves to be exposed. The butterflies were often joined by delicate Azure and Variable Damselflies. Our highlight however, came further up the track with a most co-operative Purple Emperor, licking some disgusting thing on the ground. This gave great photographic opportunities, as it didn't move even when lenses were stuck in its face. Another was less obliging, but the purple on the upper and hind wings shone iridescent when the sun light stroked its wings. There was also a nice little salt spot on the road where several Amanda's Blues, Common Blues and various Whites were licking the bricks and allowing us ample time to identify them. In the meadows, the orange and brown species caught our eye on the various species of meadow plants, and grasses, such as Scarce and Small Copper, Meadow Brown, Small and Large Skipper and Nickerl's Fritillary.

Plants were also bountiful and interesting, with *Neslia paniculata*, Meadowsweet and Great Meadow-rue which lined the field verges, interspersed with colourful collections of *Galeopsis bifida*, various species of clovers and three beautiful blue spiked stems of *Veronica (austriacum) teucrium*. The Corncrake field had a wonderful variety of grasses and an impressive patch of *Cirsum oleraceum*. The meadows were, a 'paint by numbers' sketch of old fashioned meadows, yellow of *Ranunculus acris* and *Ranunculus repens*, white of *Linum catharticum*, pinks of *Dianthus deltoides* and *Lychnis flos-cuculi*, and the blues of *Veronica chamaedrys* and *Campanula rotundifolia*.

Harriers floated over the fields, a pair of Ravens displayed noisily above our heads and the Lesser Spotted Eagle flew by in the distance. A Grasshopper Warbler was heard reeling in the Corncrake field, while the Corncrakes kept quiet as we wandered by. Shelagh, Sally and Jean had stunning views of a beautiful male Rosefinch, while Tim could be seen chasing moths or damselflies. Peter was doing an excellent job showing everyone the different plants and answering questions from Pat and Henry. Margaret and David could be heard discussing the best possible angle and light for that shot, Robert would be engrossed in shots of behavioural antics, while Colin was further ahead with tales of the birds we'd missed and Anne was just enjoying the surroundings and atmosphere. It was a very pleasant morning with lots to see.

We took a different route this afternoon, turning left before the river and walking along the cow fields, towards the wood. This was just as pleasant as the morning walk. However, it was more dominated by birds, with Whinchat and Red-backed Shrike giving us some striking poses. The Lesser-spotted Eagle was 'spotted' again circling above the trees, so everyone eventually got to see this magnificent bird. One of the shrubby areas in the field caused a bit of excitement, when Sally found a Wryneck, blending well into the background, with young Red-backed Shrikes feeding on top. Wood Warbler, Goshawk and Honey Buzzard were either seen or heard as we carried along the road. The field verges produced little in different species to what we'd seen this morning, apart from some new sedges for the increasing collection. However, the wood produced wonderful variety, including some beautiful ferns *Athyrium filix-femina*, *Cystopteris fragilis*, *Gymnocarpium dryopteris*, *Dryopteris filix-mas* and Bracken (it gets everywhere). Flowering plants included some goodies, such as Bird's-nest Orchid, *Scirpus sylvaticus*, One-leaved Bog Orchid, *Paris quadrifolia*, Common Twayblade, *Pyrola rotundifolia*, *Orthilia secunda*, *Vaccinium vitis-idaea*, *Primula veris*, *Glechoma hederacea*, *Myosoton aquaticum*, *Geum macrophyllum* and Fly Honeysuckle to name a few. However, the thunder clouds rolled in and we headed back at a faster pace. Tim was fortunate enough to spy a Roe Deer as it crossed before us.

**Day 4 Sunday 18th July Lahemaa - Viru Bog and Pohja Körvemaa-
Maastiku-Kaitseala**

The mist hung over the Corncrake field waiting to be woken by the morning sun, could this be the third day of summer? Although, it was misty this morning, it produced a couple of new birds for the list, Red-breasted Flycatcher and River Warbler. Nothing this morning produced another good catch, with Mother of Pearl, Small Magpie, Willow Beauty, Golden Y, Clouded Border, Small Scallop and Large Green Emerald.

Today saw us visiting Viru Bog and several meadows within the area of Pohja Koruemaa. The roadside verges still enchanted us with their displays of nature's colourful palette so we stopped a couple of times. Viru bog was a beautiful place, the walk towards the board walk, revealed hidden colours that broke up the forest green, such as the delicate patches of dusky pink grasses. A Goshawk soared above our heads, while the sun light woke the surface of the small pools with sparkling diamonds. Those who were wearing wellies had a chance to explore these pools for the hidden treasures hiding behind the rushes and sedges. Animal wise, a Moor Frog was found just sitting quietly along the woodland edge.

Viru was drier than the trail at Oandu, and many *Ericaceae* species were recorded, *Ledum palustre*, *Andromeda polifolia*, *Vaccinium oxycoccus*, *Vaccinium microcarpum*, *Vaccinium uliginosum* to name a few. Many of the stunted and gnarled pines, only about a metre or two in height, were over 200 years old. The scattered pools, red, gold or brown from the peat, and various red coloured bog plants, with clumps of sedges, rushes and cotton grass gently moving in the wind.

The bogs provided some lovely displays of all three sundews, *Drosera rotundifolia*, *Drosera anglica* and *Drosera intermedia*, while this was the only place where *Betula nana* was recorded. The bog pools also provided a good selection of sedges, White-beaked sedge and the very interesting Rannoch Rush, which is a bog specialist.

As one wandered along the boardwalk, Silver-studded Blue, Amanda's Blue, and Cranberry Fritillary enticed the photographers to take their pictures, before closing their wings. The pool edges were busy places for the various dragonflies and damselflies, such as Common Blue Damselfly and Blue-tailed Damselfly. The larger dragonflies, such as The Emperor and Brown Hawker, were also spotted, as well as the delicate white-faced darters *Leucorrhinia albifrons* and *Leucorrhinia dubia*.

Amanda went off to find Colin who had undertaken the whole loop, and had seen Black Kite and Crossbill. They came back along the road, and found some very interesting little plant spots, as well as Swallowtail and a dead Adder, unfortunately a road casualty. Another Swallowtail was seen during lunch, as well as several Amanda's Blues and Common Blues and a very obliging Cranberry Blue.

There was a quick look at a woodland edge to admire the lovely spikes of Lesser Butterfly Orchid, a new plant for the list. However, this turned out to be a very interesting stop, as Henry found *Chimaphila umbellata* or Umbellate Wintergreen, a very uncommon species in Estonia belonging to the wintergreen family. Other wintergreen species included *Pyrola media*, *Pyrola rotundifolia* and *Orthilia secunda*; we were doing very well for the wintergreen species. And even the ditches held some goodies such as the beautiful feathered Moonwort and *Gymnocarpium dryopteris*, *Campanula patula*, *Campanula glomerata* and *Erigeron acer*.

From here we carried on to some amazing meadows, with their colourful bouquets of flowers, where various butterflies fed off the sweet nectar, and grasshoppers such as *Chorthippus biguttulus*, *Chorthippus brunneus* and *Chorthippus parallelus*, sang their summer songs. Butterflies included Scarce Copper, Pearl-bordered Fritillary, Glanville Fritillary, Heath Fritillary and a possible Pallas's Fritillary, but it wouldn't land long enough for positive identification. The Forrester Moth was also caught, showing off its brilliant green for all to see. The beautiful *Sympetrum flaveolum* darted around continuously.

One meadow edge produced what was probably *Sedum ewersii*, a delicate version of Orpine, possibly a new record for Estonia. This meadow was a big favourite with everyone, as they disappeared in all directions down towards the wood, where in the distance Henry shouted and flushed out a Hazel Grouse. Other birds seen were Buzzards, Cranes and White Storks, which littered the fields looking for the various invertebrates and vertebrates on which they feed.

After the delights of these amazing meadows it was homewards towards the pink Manor, and tonight's meal. As we sat on the balcony drinking a nice cool refreshing beer, Swifts, House Martins and Swallows continuously soared around the top of the trees, chirping and tweeting as they fed. Tonight's gourmet feast was Overseer's Embrace and Admiral's Command which included scrimps! Desert was Princess' Compliments from Vienna, all very nice and fattening.

Day 5 Monday 19th July Endla Bog and Varangu Springs

A few people were up making the most of the morning before breakfast, having a look at last night's catch of moths or doing a spot of birding. After breakfast we headed south towards Endla Nature Reserve. The reserve was established in 1981, and covers a total of 8162 hectares of pine

bog woodland. As seems to be the case everywhere in Estonia the reserve had a headquarters converted from an old manor house – these buildings would be worth a fortune in Britain! A track took us through a farmyard and across some fields grazed by horses before suddenly disappearing into woodland. It was not at all obvious from the entrance that there was a huge bog beyond! In the sparse understorey we saw wintergreens and Lesser Butterfly Orchids and flying from trunk to trunk were a number of rather beautiful orange, black and white *Arichanna melanaria* moths.

A boardwalk took us out onto a superb sphagnum bog. We really should look at those mosses next time there seems to be so many different species. It was bright and sunny and there were a number of dragonflies including a female Emperor and several hawkers which escaped identification. Both *Leucorrhinia albifrons* and White-faced Darter posed well and amongst an abundance of Common Blue Damselflies we found both *Lestes sponsa* and *Lestes dryas* and what seems to be *Coenagrion johanssoni*. Amongst the typical bog plants that we'd had a thorough introduction to the previous day were more sundews and plenty of *Ericaceae* including one new one – *Chamaedaphne calyculata*. Sadly there were no Moose in sight even from the watchtower! We did see several Cranberry Blues around the base of the tower and a distant Honey Buzzard.

We drove a few miles through the lanes to the lovely little Varangu Reserve. Here we took our picnic on rough lawns next to a rather derelict looking old manor house. The owner came out and invited the group to go and have a look inside. The trail to the nature reserve took us past a beautiful wooden barn to a little pond where a walkway took us through some carr woodland. This was extremely species rich with many sedges (including *Carex otrubae*, *diandra*, *disticha* and beds of *rhynophysa*) and fen species including the impressive Cowbane. Odonata were numerous too with Downy Emerald, several hawkers, our only Broad-bodied Chaser of the trip, and plenty of Black-lined Skimmers. Both Beautiful and Banded Demoiselles were by the little streams further in. These were amazingly clear and every detail of the stream beds – and there were several streams – were ultra-sharp. The waters emerged from deep springs a few hundred metres away. On the way to them we passed thousands of Round-leaved Wintergreens in flower and there were abundant Lady's Slipper Orchids in seed. This place would look spectacular in early June! There were occasional groups of Birds-nest Orchids and by the springs we found Early March Orchids still in flower with One-leaved Bog Orchids and Yellow Rattle. A Goshawk's nest was seen high in a spruce – the bird's moulted feathers giving away its position! A White Admiral flew past and Large Copper was seen. On the way back to Kohala a roadside stop on the Rakvere bypass revealed a singing Barred Warbler, some Common Cranes and a Cranberry Fritillary!

Our last night saw a change to the evening's menu, instead of Equerry's Order, it was Wrangell's Delight, followed by Fairy's Enticement, which was divine. The food had been excellent, well presented, plenty of variety, and very tasty.

Day 6 Tuesday 20th July Kohala to Saaremaa (Loona Manor)

An earlier start this morning and time to say goodbye to the lovely Kohala. We headed westwards back to the capital Tallinn and then towards the west coast islands. The route took us down towards Virtsu and it was clear that things were changing as we got closer to the west coast. The lush meadows now had shorter grass with many flowers and open areas which were clearly seasonally inundated started to appear. We made a stop to stretch our legs and enjoy a few roadside flowers.

Amongst many by now familiar species there was Brown Knapweed and by a small river some very fine Greater Spearwort and Greater Water Parsnip. Iridescent Beautiful Demoiselles fluttered above the water's surface.

We moved on to Matsalu, a large national park surrounding the bay of the same name. We stopped by a roadside meadow and spent half an hour pottering amongst Fragrant Orchids, *Trifolium montanum* and *Odontites vulgaris*. We had lunch at the carpark by Suitsu. A Wryneck flew up off the carpark gravel as we arrived and we watched it perched in the base of a nearby elder. Hen and Marsh Harriers quartered the coastal meadows and Common Snipe flew overhead. Almost as soon as we'd arrived the first Purple Emperor appeared and we saw several of these beautiful butterflies over the next hour or so. One in particular provided quite a show as it sat upon the trackside allowing very close approach and even opening its wings for the photographers. Other butterflies included Dark Green, Pearl-bordered and Lesser Marbled Fritillaries as well as Small Tortoiseshell, Large Copper and Common Blue. There were also various damselflies here including both *Lestes dryas* and *sponsa* and the White-legged Damselfly *Platycnemis pennipes*. As well as the Wrynecks there were Hawfinches (3), Red-backed Shrikes and an immature White-tailed Eagle.

On the way out we stopped by another promising area. In fact one could have stopped anywhere within five miles of Suitsu and enjoyed the wonderful flora! Our chosen spot of course had some very fine flowering specimens of Fragrant Orchids including a few pure white ones. Military Orchid and Fly Orchid had finished flowering a month ago along with *Primula farinosa* but in the here and now bracket there was still plenty to see. There were some lovely Marsh Helleborines and down by the ditch a wonderful display of *Ranunculus lingua*. One plant of *Ranunculus ophioglossifolius* was a good find and several hummocks contained a few plants of *Centaureum pulchellum*. Woodlark sang overhead.

Then it was time to go and get the ferry. The next one was at five so we had twenty minutes pottering by the harbour. Mats of *Ranunculus trichophyllus* had several flowers and on the shoreline there were several nice plants. *Aster tripolium* flowered alongside the rushes *Schoenoplectus tabernaemontani* and *maritimus* (we'd seen *lacustris* at Matsalu too). Common Terns, Scaup, Goldeneye and Red-breasted Merganser were all in the harbour.

Then we were on the ferry and a half hour's tea or sun on deck before arriving on Saaremaa or more correctly on its little twin Muhu. It was getting late so now we just drive to Loona Mois where we received a warm welcome as well as a superb evening meal.

Day 7 Wednesday 21st July Vidumae Reserve and the western Tagamõisa Peninsula

A leisurely start to the day with a little pottering about the local property. Black-tailed Skimmers were numerous and Henry came in with a little haul of new plants including both *Ribes alpina* and *Ribes uva-crispa*. The main event started with a roadside stop just a couple of miles away. A mother and baby Roe Deer sprang across the road just as we arrived. A few striking Dark Red Helleborines flowered on the road verges and closer examination revealed much else. In ditches were a few Early Marsh Orchids and several fine patches of Marsh Helleborine. Broad-leaved Helleborine appeared

in fine large forms though still in bud. *Blysmus compressus* occupied a few square feet of verge and in the wet areas were our first *Ranunculus flammula*.

It wasn't far to the headquarters of Vidumae reserve but we passed many enticing looking spots on the way. We needn't have worried – the meadow by the information centre was also superb. The flora was pleasant rather than spectacular with a wide range of typical meadowland plants. It was the insect life which was really very good. Butterflies were present in the form of several fritillaries – mostly Dark Green and Pearl-bordered – and brilliant Scarce Coppers. Our first Black-veined White was seen as was Large Heath, White Admiral and Amanda's Blue. The grasshoppers were numerous and mostly big! In particular there was an abundance of Wartbiters with various instars present as well as both male and female. Spiders, beetles and flies received due attention as did a very tiny (recently hatched) baby lizard. Crossbills flew over and so too a Nutcracker.

Then we entered the wood for a walk round the nature trail. This was not as productive as the meadow but there were a few highlights on the way. Birds were not much in evidence though Colin did see Pied Flycatcher. Butterflies also were scarce with perhaps the most numerous species (i.e. less than 6 in total) being the large and well-marked Woodland Brown. The flora included the pretty *Vicia sylvatica*, the elegant Sermountain *Laserpitium latifolium* and Sanicle. In a large damp clearing were damselflies – *Ischnura elegans* and *Lestes sponsa* – and two new orchids species. These were both 'marsh orchids' or 'dactylorchids' and the two species concerned were *ruthei* and *curvifolia*, the former a Baltic endemic and a very rare plant even in Estonia. The flora lists only one locality which is on Saaremaa – was this it we wondered?.

Lunch was taken a few miles back down the road by a nice verge with Maiden Pink and plenty of other plants but crucially including the lovely *Melampyrum arvense* a pink and yellowish cow-wheat.

Now it was time to go and explore the far northwest corner of the island. Tracks north of Kihelkonna took us past many wonderful areas. We stopped amid a very dry looking area of sparsely vegetated land. Though limestone underneath it clearly had standing water for part of the year – maybe only a few days – but it gave a distinctive feel to the habitat. In barren looking depressions Smooth Rupturewort was common. The pretty 'leadwort-like' *Sagina nodosa* was common as was thyme. *Inula salicina* was an uncommon flower. A Swallowtail flew past and Grayling was seen twice. Most spectacular was the brilliant green caterpillar of the Emperor Moth.

Next stop was by a small damp area visible from the roadside. This proved a wonderful botanical spot. The seasonally inundated turf was low and contained a strange mix of plants with dominants including *Viola pumila*, *Teucrium scordium* and *Mentha arvensis*. *Carex contigua* and *Carex buxbaumii* grew here with *Centaurium littorale* and *Scutellaria hastata*. Fritillaries here were numerous but included only species that had already been seen. Now it was time to head north to the tip of the peninsula and so we parked up in the carpark and set off on foot to the dunes. Of course a sand dune flora is both distinctive and in Europe quite universal so it didn't take long to find our bearings amongst *Carex arenaria*, Sea Holly, *Honkenya peploides*, Lyme Grass and on the shore Sea Rocket and various chenopods. Ringed Plover and Whimbrel were by the shore and Common Terns and a couple of immature Caspian Terns flew over. A previous visitor had made a little art piece with feathers gleaned from the tideline. One wonders if they knew what they were using as they had picked some rather special feathers with common species such as Mute Swan and

Herring Gull and Cormorant joined by male Red-breasted Merganser, Barbacle Goose, Black-throated Diver, Common Scoter and Little Gull. Over the other side of the ridge Sally spotted several distant Black-throated Divers on the sea.

It was time to head back but we still fitted in a quick stop by a stream through the sandy forest. By the banks were numerous Common Spotted Orchids and on dry land were some fine photogenic Yellow Birdsneests and our first fully in flower *Chimaphila umbellata* – such a pretty wintergreen. One minibus went directly back now whilst the rest of us made the journey last until dinner time by adding another three stops – the area is so rich! We looked at the area by a lake with Long-leaved Sundew and Marsh Helleborine amongst the *Cladium mariscus* by the shore. There were plenty of signs of Moose here but no sighting of the animals themselves. Remarkably Pyramidal and Burnt-tip Orchids were added to the trip – both in flower. Later we pulled up by the trackside as some reasonably close Common Cranes offered some photographic opportunities. Our last stop was by some dry limestone pavement. There was little of new floral interest here but a very noisy bunch of Jays kept us entertained as we tried to work out what it was they were scolding. Eventually I saw the female Sparrowhawk on the ground under some thick cover. The Jays were having a real go, approaching to within a foot of the raptor, and though we couldn't see what she had it seemed reasonable to surmise that it might be a young Jay!

**Day 8 Thursday 22nd July Vilsandi Island and northern and eastern
Tagamõisa Peninsula**

The day started at the front door where Tim's haul of moths from the traps had far exceeded the previous nights and verged on an overdose of pre-breakfast moths. As well as the usual rosechafers there was also a dead hornet amongst them. The moths were not just numerous they were also varied.

Whilst Tim and co sorted through their booty several of us went to the carpark intent upon some exploration only to be brought up short by Sally who had around twenty Common Cranes in the 'scope and had just seen two Black Storks circle in and land nearby. The exploration therefore started with a drive towards the cranes which allowed us quite close views – there were in fact 26 of them. We were unable to find the storks again though. We drove north to a fen north of Kihelkonna. This proved a marvellous place. The flora was quite exceptional with a hundred or more Fen Orchids jostling for attention amongst the numerous and large Marsh Helleborines, Fragrant Orchids and even the odd Fly Orchid. All bar one of the Fen Orchids had finished flowering but it was with great pleasure that we found this one still in flower and nearby a *Primula farinosa* still in good flower too. Two Common Cranes and their baby walked off into the reeds. We soon encountered more birds – Treecreeper, Willow, Long-tailed, Blue and Great Tits, Chiffchaff, Willow, Wood and Greenish Warblers and Yellowhammer and Chaffinch. A Redpoll flew over as did a pair of Common Cranes and by the bus were Red-backed Shrike and Wryneck – all in all a pretty good spot!

After breakfast and a little wait we set off for Papisaaire and the boats for Vilsandi Island. We had two of them – a chubby old thing with fore and aft covered decks and a large old throbbing Russian engine and a little bright yellow thing altogether more open to the elements. It was by now

pleasantly sunny as we chugged across the waters. Two islets at the start held Common Terns, Barnacle Geese and Green Sandpipers and later we saw Little Terns and Little Gull. The route took us through some islets that now formed an almost complete causeway to Vilsandi – the result of rapid uplift which in western Estonia was seeing the land rising at 3mm a year. None of the islands in this section had even existed three hundred years before and as we went out into open water we could see more that would soon rise from the waters.

Once on the island Katri our local guide took us on a guided walk past the lake and in a circuit towards the windmills though most of us just dropped off and enjoyed the flora and fauna that were particularly good actually quite near the boatyard. By the shore was Seaside Century and by the lake a myriad of nice plants. Marsh and Sea Arrowgrass were present as was plenty of the fine *Odontites littoralis*. The orchids here, aside from Marsh Helleborine, were *Dactylorhiza longifolia (baltica)* though it took Peter to point out that they were in fact ‘different’. Once ‘discovered’ it was obvious – they had tall tight columnar spikes rather reminiscent of a robust *incarnata* and the same robust yet hollow stem – but the flowers resembled more a cross between *praetermissa* and *maculata*. There were numerous sedges here with *Carex distans*, *serotina*, *xbergrothii*, *demissa* and *lepidocarpa* and the lovely Flea Sedge *Carex pulicaria*. Butterflies were not numerous but we did find several Graylings, a few Common Blues, a female Amanda’s Blue and best of all, back by the jetty, a Large Blue.

After chugging back to the mainland taking our picnic en route we made our way back down the cobbled road towards Kihelkonna only to stop again as orchids loomed up before us. Fly Orchids were in good flower still and there were also Dark Red Helleborine and plenty of *Tofieldia calyculata* – the German Asphodel. Amanda’s minibus had already stopped for a prize-winning Red Helleborine. We joked that the ladies taking us on our afternoon guided orchid extravaganza would probably take us here it was so good but we should have known better! After joining up with Tina the orchid expert and Merica her translator and park guide we headed north again. Soon we were stopping by a track which took us through some damp woodlands to a lakeshore, The track had Greater Butterfly Orchid, Dark Red Helleborine, *Agrimonia procera* and the endemic yellow rattle *Rhinanthus osiliensis*. It also had numerous toads, prints of Moose and other mammals, several fine boletus mushrooms and the water crowfoot *Ranunculus baudotii*. Down by the lakeshore was a wonderful little display of orchids amongst sphagnum, sedges, *Myrica gale* and *Salix repens*. As is usual in this area there were numerous Marsh Helleborines, this time joined by both Fen Orchid (in seed) and Mush Orchid (in flower) and also the unusual marsh orchid *Dactylorhiza curvifolia (russowii)*. Green Sandpipers were on the lake shore and there were plentiful Black-tailed Skimmers and Blue-tailed Damselflies as well as a few Common Blue Damselflies – the latter had been common on Vilsandi in the morning.

Then it was off to another site – this time a ditch through some rather ordinary looking meadows. Of course it was better than that – the ditch contained just a few Fen Orchids and abundant Musk Orchid – and in the meadow too – many were unusually large. *Dactylorhiza cruenta* had recently finished flowering and there was Adder’s-tongue Fern here too. Next we entered forest where almost immediately we found ourselves amongst lots of very fine large Red Helleborines backed up by their cousins the Dark Red Helleborines. Two Nutcrackers flew over.

The last stop of the day was on the north coast of the peninsula. We had been driving through just the most wonderful countryside and this culminated in a boggy area surrounded by shingle

seashore, forest and dry flats and of course the sea itself. The object of our visit was a colony of *Dactylorhiza longifolia (baltica)* which was growing with Marsh Helleborine, Early Marsh Orchid and the odd *Dactylorhiza maculata*. Marsh Pea, *Equisetums hyemale* and *variegatum* mixed with *Carex buxbaumii* and *Veronica scutellaria* in the dampest areas whilst dry ridges were red, yellow and blue with Echiums, Toadflaxes and Clovers. On the seashore we found a good selection of shore species whilst birdwise there were Oystercatchers, Greenshank, Black-throated Diver and plenty of Cormorants offshore.

Day 9 Friday 23rd July To Tallinn

The day started rainy and so plans to go and photograph the Fen Orchid that was still in flower were shelved in favour of a relaxed breakfast. We set off at nine and took the shortcut through the Vidumae Reserve in the hope that a Moose might just appear at the last moment! No such luck, but we did see one particularly spectacular plant. This was the remarkable Moor King, a large yellow and red flowered Lousewort. It is a most peculiar species with flowers that stayed closed and is unusually tall for European louseworts – in fact the flowers reminded us a little of the North American Turtleheads. Growing with it were Marsh Helleborine, Fragrant Orchid and several fine specimens of *Dactylorhiza curvifolia*. Obviously worth more than the few minutes we had!

We continued on to the ferry and thence to Tallinn arriving at half past one. We settled into a modern and thoroughly pleasant hotel by the airport and then set about a very fine lunch of Tomato and Mozzarella salad complete with sun-dried tomatoes followed by something tasty with beef fillet steak.

Later in the afternoon we ventured into the old city of Tallinn. The centre is largely medieval and is very impressive and though busy with both locals and tourists has a very laid back air. Many restaurants and cafes spill out onto the streets and the medieval theme is enthusiastically taken up by these with waitresses and waiters in garb that though perhaps not middle-ages certainly brings to mind its more picturesque moments. Cathedral and museums there were but what was most striking was the number of shops filled with all sorts of goods from antiques to modern fashion – the city certainly seems to marry the modern and the old quite well. Presents and books were procured and flowers too and then we were back off to the hotel for an hour or two before once again setting forth for the town centre and our evening meal. This was taken in the ‘dungeons’ of the “Peppersack”. A feast was provided with some fine ale to water it down!

Day 10 Saturday 24th July Departure

After an early breakfast at the hotel it was a five minute journey to the airport and a very efficient immediate check-in. All done and dusted in no time!

I (Ian) stayed in Estonia for a few more hours as my flight was at two. I popped down to have a look at the large Korvemaa Mka reserve east of Kehra. Nothing ‘spectacular’ was seen though the area was clearly good. Butterflies were especially so with Purple Emperor, numerous Map Butterflies, Silver-washed, High Brown and Pearl Bordered Fritillaries. Moorland Clouded Yellows

stopped to be photographed and Brimstone was new. Amanda's Blues were common and there was another Large Blue. Essex, Small and Large Skippers were all seen. Large Tortoiseshell and the lustrous Lapland Ringlet were nice additions and some of the 'heath' confusion may have been cleared up here as a close look revealed the 'large heaths' in this area to be washed out Chestnut Heaths – Paul was right of course! Birds were also quite good with 25 or so Common Cranes, Honey Buzzard, Wryneck, Hazelhen, Crested Tits and a Black Woodpecker that called frequently but failed to put in an appearance. It would clearly be a good area for mammals but mid-morning all I saw was a vole, a beaver dam and sadly, a dead Raccoon Dog on the road. The flora took us back to a more 'eastern Estonian' type, radically different from that found on Western Saaremaa. Plants included *Trifolium aureum*, *Stachys palustris*, *Galeopsis bifida* and 'little yellow crucifers'. Then it was back to the airport again stopping briefly to repack and use up the last bit of a film on a friendly Purple Emperor perched by the minibus.

Summary of Locations

Day 1	July 15 th	Tallinn to Kohala
Day 2	July 16 th	Lahemaa - Oandu
Day 3	July 17 th	Kohala
Day 4	July 18 th	Lahemaa – Viru Bog and Pohja Körvemaa-Maastiku-Kaitseala
Day 5	July 19 th	Endla Bog and Varangu Springs
Day 6	July 20 th	Kohala to Saaremaa (Loona)
Day 7	July 21 st	Saaremaa – Vidumae & the western Tagamõisa Peninsula
Day 8	July 22 nd	Saaremaa – Vilsandi Island & the northern and eastern Tagamõisa Peninsula
Day 9	July 23 rd	Saaremaa to Tallinn
Day 10	July 24 th	Departure

Systematic List Number 1 Plants

The 'Flora of the Baltic Countries' published in three volumes by Tartu University is a very good flora of the region. The Scandinavian 'Gyldendals Store Nordiske Flora' is very useful in Estonia and it is fully illustrated. This list uses Paul's 2003 list as a basis and adds to it. Species not seen in 2004 are in square brackets [eg.].

Pteridophyta

Lycopodiaceae

<i>Lycopodium clavatum</i>	Stagshorn Clubmoss	Viru Bog. 2004 Scattered
[<i>Huperzia selago</i>]	Fir Clubmoss	Scattered records]

Equisetaceae

<i>Equisetum arvense</i>	Field Horsetail	Common
[<i>Equisetum pratense</i>]	Shade Horsetail	Common]
<i>Equisetum palustre</i>	Marsh Horsetail	Widespread
<i>Equisetum fluviatile</i>	Water Horsetail	Common in aquatic habitats
<i>Equisetum sylvaticum</i>	Wood Horsetail	Common
<i>Equisetum hyemale</i>	Rough Horsetail	Widespread. 2004 Saaremaa.
<i>Equisetum scirpioides</i>		2004. Found on Saaremaa – a rare plant in Estonia
<i>Equisetum variegatum</i>		2004. Quite common on Saaremaa

Ophioglossaceae

<i>Ophioglossum vulgatum</i>	Adder's-Tongue Fern	2004. Tagamõisa Peninsula on Saaremaa
<i>Botrychium lunaria</i>	Moonwort	2004. Scattered – east and west

Hypolepidaceae

<i>Pteridium aquilinum</i>	Bracken	Widespread and common
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Thelypteridaceae

<i>Thelypteris palustris</i>	Marsh Fern	2004. Varangu
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Athyriaceae

<i>Athyrium filix-femina</i>	Lady Fern	Widespread and common
<i>Cystopteris fragilis</i>	Brittle Bladder Fern	Scattered records. 2004 Kohala
<i>Matteucia struthiopteris</i>	Ostrich Fern	Widespread.
<i>Gymnocarpium dryopteris</i>	Oak Fern	Scattered records.

Aspidiaceae

<i>Dryopteris filix-mas</i>	Male Fern	Widespread.
<i>Dryopteris expansa</i>	Northern Buckler Fern	Scattered records. Records of <i>dilitata</i> from 2004 should be included here
<i>Dryopteris cristata</i>	Crested Buckler Fern	2004 several fine specimens in Pohja Kõrvemaa-Maastiku-Kaitseala
<i>Dryopteris carthusiana</i>		2004. Pohja Kõrvemaa-Maastiku-Kaitseala

Polypodiaceae

<i>Polypodium vulgare</i>	Common Polypody	Scattered records.
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Spermatophyta

Gymnospermae

Pinaceae

<i>Picea abies</i>	Norway Spruce	Dominant over extensive areas.
<i>Pinus sylvestris</i>	Scots Pine	Dominant over extensive areas.
<i>Larix decidua</i>	Larch	Noted on Saaremaa. 2004 widespread

Cupressaceae

<i>Juniperus communis</i>	Juniper	Widespread and very common.
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Taxacaceae

<i>Taxus baccata</i>	Yew	2004. Tagamõisa Peninsula
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Salicaceae

<i>Salix pentandra</i>	Bay Willow	
<i>Salix fragilis</i>	Crack Willow	
<i>Salix triandra</i>	Almond Willow	
[<i>Salix myrsinifolia</i>	Dark-leaved Willow]	
<i>Salix caprea</i>	Goat Willow	
<i>Salix cinerea</i>	Grey Willow	
<i>Salix aurita</i>	Eared Willow	
[<i>Salix lapponum</i>	Downy Willow]	
[<i>Salix viminalis</i>	Osier]	
<i>Salix repens</i>	Creeping Willow	Scattered in boggy areas
<i>Salix alba</i>	White Willow	
<i>Populus tremula</i>	Aspen	Widespread and often co-dominant

Myricaceae

<i>Myrica gale</i>	Bog Myrtle	2004. Tagamõisa Peninsula
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Betulaceae

<i>Betula pendula</i>	Silver Birch	Widespread and often co-dominant
<i>Betula pubescens</i>	Downy Birch	Widespread and very common.
<i>Betula nana</i>	Dwarf Birch	Local in bogs, e.g. Viru Bog.
<i>Alnus glutinosa</i>	Alder	Widespread.
<i>Alnus incana</i>	Grey Alder	Widespread.

Corylaceae

<i>Corylus avellana</i>	Hazel	Widespread.
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Fagaceae

<i>Quercus robur</i>	Pedunculate Oak	Widespread.
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Ulmaceae

<i>Ulmus glabra</i>	Wych Elm	Scattered records.
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Cannabaceae

<i>Humulus lupulus</i>	Hop	Scattered records.
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Urticaceae

<i>Urtica dioica</i>	Common Nettle	Widespread.
[<i>Urtica urens</i>	Annual Nettle	Widespread.]

Polygonaceae

<i>Polygonum aviculare</i>	Knotgrass	Scattered
[<i>Polygonum amphibium</i>]	Amphibious Bistort	Noted in some ponds.]
<i>Polygonum persicaria</i>	Redshank	Scattered
<i>Fallopia convolvulus</i>	Black Bindweed	2004. Tagamõisa Peninsula
<i>Rumex crispus</i>	Curled Dock	Common.
<i>Rumex acetosa</i>	Common Sorrel	Common.
<i>Rumex acetosella</i>	Sheep's Sorrel	Scattered records.
[<i>Rumex hydrolapathum</i>]	Water Dock	Widespread.]
<i>Rumex obtusifolius</i>	Broad-leaved Dock	Widespread.

Chenopodiaceae

<i>Chenopodium album</i>	Fat Hen	Scattered records.
[<i>Chenopodium suecicum</i>]	Green Goosefoot	Scattered records.]
<i>Chenopodium urbicum</i>	Upright Goosefoot	2004. Tagamõisa Peninsula
<i>Atriplex littoralis</i>	Grass-leaved Orache	2004. Tagamõisa Peninsula
<i>Atriplex prostrata</i>	Spear-leaved Orache	Tagamõisa Peninsula
<i>Salicornia europaea</i>	Glasswort	2004. Tagamõisa Peninsula
<i>Salsola kali</i>	Prickly Saltwort	2004. Tagamõisa Peninsula

Caryophyllaceae

<i>Moehringia trinervium</i>	Three-veined Sandwort	2004. Varangu
<i>Honkenya peploides</i>	Sea Sandwort	Coastal. 2004. Tagamõisa Peninsula
<i>Stellaria media</i>	Common Chickweed	Widespread.
<i>Stellaria graminea</i>	Lesser Stitchwort	Common.
<i>Stellaria palustris</i>	Marsh Stitchwort	2004. Varangu
<i>Stellaria nemorum</i>	Wood Stitchwort	2004. Oandu
<i>Cerastium fontanum</i>	Common Mouse-ear	2004. Common on Saaremaa
<i>Myosoton aquaticum</i>	Water Chickweed	2004. Viru Bog
<i>Sagina nodosa</i>	Knotted Pearlwort	2004. Tagamõisa Peninsula – common in dry areas
<i>Hernaria glabra</i>	Smooth Rupturewort	Tagamõisa Peninsula
<i>Spergularia salina</i>		Vilsandi Island. 2004. Tagamõisa Peninsula
<i>Lychnis flos-cuculi</i>	Ragged Robin	Noted in Lahemaa.
<i>Lychnis viscaria</i>	Sticky Catchfly	Scattered records.
<i>Silene nutans</i>	Nottingham Catchfly	Scattered records.
<i>Silene vulgaris</i>	Bladder Campion	Widespread.
<i>Silene dioica</i>	Red Campion	Scattered records.
<i>Silene latifolia</i>	White Campion	Widespread.
[<i>Saponaria officinalis</i>]	Soapwort	Locally common along roads.]
<i>Dianthus deltoides</i>	Maiden Pink	Widespread but local.

Nymphaeaceae

<i>Nuphar lutea</i>	Yellow Water-Lily	Locally in ponds and lakes.
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Ranunculaceae

<i>Aconitum leucostomum</i>		2004. In bud in Pohja Kõrvemaa-Maastiku-Kaitseala. An interesting record as the Baltic Flora only records this species from one place in the south of Estonia!
<i>Hepatica nobilis</i>	Hepatica	Common in leaf in woods.
<i>Pulsatilla vulgaris</i>	Pasque Flower	In seed in Vilsandi National Park. 2004 Kohala
<i>Anemone trifoliata</i>		2004. Kohala
<i>Anemone nemorosa</i>	Wood Anemone	2004. Scattered
[<i>Actaea spicata</i>]	Baneberry	Lahemaa.]

<i>Caltha palustris</i>	Marsh Marigold	A few records.
<i>Ranunculus acris</i>	Meadow Buttercup	Widespread.
<i>Ranunculus auricomus</i>	Goldilocks	Scattered records.
<i>Ranunculus repens</i>	Creeping Buttercup	Common.
<i>Ranunculus flammula</i>	Creeping Spearwort	2004. Tagamõisa Peninsula and Vilsandi
<i>Ranunculus lingua</i>	Greater Spearwort	2004. Noted near Risti between Tallinn and Virtsu and also at Matsalu
<i>Ranunculus ophioglossifolius</i>	Adder's-Tongue Spearwort	2004. Just the one plant seen near Matsalu
<i>Ranunculus sceleratus</i>	Celery-leaved Buttercup	2004. Kohala and Saaremaa
<i>Ranunculus polyanthemos</i>	Multiflowered Buttercup	Scattered records. 2004. Oandu
<i>Ranunculus trichophyllus</i>	Thread-leaved Water Crowfoot	Local in aquatic habitats. 2004 even noted in the sea at Virtsu!
<i>Ranunculus baudotii</i>	Brackish Water Crowfoot	Tagamõisa Peninsula
<i>Aquilegia vulgaris</i>	Common Columbine	Loona Mois on Saaremaa
<i>Thalictrum flavum</i>	Common Meadow-rue	2004. Scattered
<i>Thalictrum simplex</i>	Small Meadow-rue	2004. Tagamõisa Peninsula
Papaveraceae		
<i>Chelidonium majus</i>	Greater Celandine	Scattered records.
<i>Papaver rhoeas</i>	Corn Poppy	2004. Between Tallinn and Virtsu
<i>Papaver dubium</i>	Long-headed Poppy	2004. Vidumae
Fumariaceae		
<i>Fumaria officinalis</i>	Common Fumitory	Scattered records.
Cruciferae		
<i>Crambe maritima</i>	Sea Kale	2004. Tagamõisa Peninsula
<i>Sinapis arvensis</i>	Charlock	2004. Varangu
<i>Cardamine bulbifera</i>	Coralroot Bittercress	In seed in woods.
[<i>Lunaria rediviva</i>	Perennial Honesty	Very local in Lahemaa.]
<i>Arabis hirsuta</i>	Hairy Rockcress	Common.
<i>Neslia paniculata</i>	Ball Mustard	Widespread.
<i>Capsella bursa-pastoris</i>	Shepherd's Purse	Common.
<i>Lepidium latifolium</i>	Dittander	Scattered records.
<i>Cakile maritima maritima</i>	Sea Rocket	Local on coasts. 2004 Tagamõisa Peninsula
<i>Cakile maritima baltica</i>		2004. Tagamõisa Peninsula
<i>Barbarea vulgaris</i>	Common Wintercress	2004. Kohala
<i>Erysimum cheiranthoides</i>	Treacle-Mustard	2004. Kohala
<i>Thlaspi arvense</i>	Field Pennycress	Scattered records.
<i>Berteroa incana</i>	Hoary Alison	Scattered records.
Droseraceae		
<i>Drosera rotundifolia</i>	Common Sundew	Locally very common in Bogs, e.g. Viru Bog
<i>Drosera anglica</i>	Great Sundew	Locally common in bogs, e.g. Viru Bog.
<i>Drosera intermedia</i>	Oblong-leaved Sundew	Very scarce at Viru Bog.
Crassulaceae		
<i>Sedum telephium</i>	Orpine	Scattered records.
<i>Sedum acre</i>	Biting Stonecrop	Scattered records.
<i>Sedum album</i>	White Stonecrop	Scattered records.
<i>Sedum anglicum</i>	English Stonecrop	2004. Saaremaa. This and the next record should be confirmed next year as neither species is listed in the Baltic Flora
<i>Sedum ewersii</i>		2004. Varangu

Parnassiaceae

Parnassia palustris Grass of Parnassus Varangu. 2004 Varangu and various places on Saaremaa

Grossulariaceae

Ribes rubrum Redcurrant Locally common, as on Vilsandi Island.
Ribes nigrum Blackcurrant Varangu.
Ribes uva-crispa Wild Gooseberry 2004. Loona Mois, Saaremaa. Not recorded in the Baltic Flora?
Ribes alpinum Mountain Currant 2004. Loona Mois, Saaremaa

Rosaceae

Filipendula vulgaris Dropwort Scattered records.
Filipendula ulmaria Meadow Sweet Widespread and abundant.
Sorbaria sorbifolia 2004. Naturalised commonly
Rubus chamaemorus Cloudberry Common in bogs.
Rubus saxatilis Stone Bramble 2004. Scattered
Rubus idaeus Raspberry 2004. Scattered
Rubus nessensis 2004. Locally common in east
[*Rosa rugosa* In flower near the coast at Lahemaa.]
Agrimonia eupatoria Agrimony Widespread and common.
Agrimonia procera Fragrant Agrimony Scattered records.
Geum rivale Water Avens Scattered records.
Geum urbanum Herb Bennet Scattered records.
Geum macrophyllum 2004. Locally common in woods
Potentilla palustris Marsh Cinquefoil Local in Lahemaa.
Potentilla anserina Silverweed Widespread and very common.
Potentilla argentea Hoary Cinquefoil Widespread.
Potentilla norvegica Norwegian Cinquefoil Scattered records.
Potentilla erecta Tormentil Common.
Potentilla reptans Creeping Cinquefoil Widespread and common.
[*Potentilla impolita* Scattered records.]
Fragaria vesca Wild Strawberry Common.
[*Fragaria viridis* Scattered records.]
[*Fragaria moschata* Hautbois Strawberry Widespread.]
Alchemilla spp. Noted in various places.
Malus sylvestris Wild Apple Common.
Sorbus aucuparia Rowan Scattered records.
Sorbus intermedia Swedish Whitebeam Scattered records.
Sorbus x hybrida 2004. Vidumae
Cotoneaster scandinavicus Local on Saaremaa.
Crataegus monogyna Hawthorn Uncommon.
Prunus avium Wild Cherry Scattered records.
Prunus padus Bird Cherry Scattered records.

Fabaceae

Lupinus polyphyllus Roadsides.
[*Oxytropis pilosa* Saaremaa.]
Vicia cracca Tufted Vetch Widespread.
[*Vicia tenuifolia* Fine-leaved Vetch Scattered records.]
Vicia sativa Common Vetch Scattered records.
Vicia sylvatica Wood Vetch 2004. Common at Vidumae
Vicia hirsuta Hairy Tare 2004. Near Vidumae
[*Vicia cassubica* Scattered records.]
Lathyrus pratensis Meadow Vetchling Scattered records.

<i>Lathyrus sylvestris</i>	Narrow-leaved Everlasting Pea	2004. Near Vidumae
<i>Lathyrus vernus</i>	Spring Vetch	2004. Pohja Kõrvemaa-Maastiku-Kaitseala
<i>Lathyrus maritimus</i>	Sea Pea	Was subspecies of <i>japonicus</i> . 2004. Near Oandu
<i>Lathyrus niger</i>	Black Pea	2004. Tagamõisa Peninsula
<i>Lathyrus palustris</i>	Marsh Pea	2004. Tagamõisa Peninsula
<i>Tetragonolobus maritimus</i>		2004. Tagamõisa Peninsula where common
[<i>Ononis arvensis</i>		Local on roadsides.]
<i>Melilotus albus</i>	White Melilot	Widespread.
<i>Melilotus officinalis</i>	Ribbed Melilot	Scattered records.
<i>Medicago lupulina</i>	Black Medick	2004. Scattered
<i>Medicago sativa</i>	Lucerne	Scattered records.
<i>Medicago sativa ssp. falcata</i>	Sickle Medick	Widespread.
<i>Trifolium montanum</i>	Mountain Clover	Local.
<i>Trifolium repens</i>	White Clover	Widespread and very common.
<i>Trifolium hybridum</i>	Alsike Clover	Scattered records.
<i>Trifolium fragiferum</i>	Strawberry Clover	Scattered records. 2004 only on Tagamõisa Peninsula
<i>Trifolium arvense</i>	Haresfoot Clover	Scattered records.
<i>Trifolium alpestre</i>	Alpine Clover	Saaremaa.
<i>Trifolium dubium</i>	Lesser Trefoil	2004. Pohja Kõrvemaa-Maastiku-Kaitseala
<i>Trifolium medium</i>	Zigzag Clover	Widespread.
<i>Trifolium pratense</i>	Red Clover	Common.
<i>Lotus corniculatus</i>	Bird's-foot Trefoil	Scattered records.
<i>Anthyllis vulneraria</i>	Kidney Vetch	Scattered records.
 <i>Oxalidaceae</i>		
<i>Oxalis acetosella</i>	Wood Sorrel	Common in woods.
 <i>Geraniaceae</i>		
<i>Geranium sanguineum</i>	Bloody Cranesbill	Locally common, as on Saaremaa.
<i>Geranium pratense</i>	Meadow Cranesbill	Locally common.
<i>Geranium sylvaticum</i>	Wood Cranesbill	Widespread.
<i>Geranium robertianum</i>	Herb Robert	Scattered records. 2004. The coastal form ' <i>maritimum</i> ' seen in north of Tagamõisa Peninsula
<i>Geranium palustre</i>	Marsh Cranesbill	2004. Varangu and Kohala
 <i>Linaceae</i>		
<i>Linum catharticum</i>	Purging Flax	Scattered records.
 <i>Euphorbiaceae</i>		
[<i>Mercurialis perennis</i>	Dog's Mercury	Lahemaa.]
<i>Euphorbia helioscopia</i>	Sun Spurge	2004. Kohala
<i>Euphorbia peplus</i>	Petty Spurge	2004. Kohala
<i>Euphorbia palustris</i>	Marsh Spurge	2004. Kohala
<i>Euphorbia esula</i>	Leafy Spurge	2004. Kohala
 <i>Polygalaceae</i>		
<i>Polygala amarella</i>	Dwarf Milkwort	2004. Varangu
<i>Polygala serpyllifolia</i>	Thye-leaved Milkwort	2004. Scattered
 <i>Aceraceae</i>		
<i>Acer platanoides</i>	Norway Maple	Widespread.

<i>Balsaminaceae</i>		
<i>Impatiens noli-tangere</i>	Touch-me-not Balsam	Lahemaa.
<i>Impatiens parviflora</i>	Small Balsam	Locally common.
<i>Celastraceae</i>		
[<i>Euonymus europaeus</i>	Spindle	Scattered records.]
<i>Rhamnaceae</i>		
<i>Rhamnus catharticus</i>	Buckthorn	Widespread.
<i>Frangula alnus</i>	Alder Buckthorn	Widespread.
<i>Tiliaceae</i>		
<i>Tilia cordata</i>	Small-leaved Lime	Widespread.
<i>Thymelaeaceae</i>		
<i>Daphne mezereum</i>	Mezereon	Local, e.g. seen at Vidumae.
<i>Clusiaceae</i>		
<i>Hypericum montanum</i>	Mountain St John's Wort	Local. 2004 Saaremaa only.
<i>Hypericum perforatum</i>	Perforate St. John's Wort	Widespread.
<i>Hypericum maculatum</i>	Imperforate St John's Wort	2004. Scattered throughout
<i>Violaceae</i>		
<i>Viola pumila</i>	Meadow Violet	2004. Tagamõisa Peninsula
<i>Viola epipsila</i>		2004. Scattered
<i>Viola uliginosa</i>		In leaf at Matsalu.
[<i>Viola tricolor</i>	Wild Pansy	Local.]
<i>Viola arvensis</i>	Field Pansy	2004. Scattered
<i>Lythraceae</i>		
<i>Lythrum salicaria</i>	Purple Loosestrife	Common and widespread.
<i>Onagraceae</i>		
<i>Circaea alpina</i>	Alpine Enchanter's Nightshade	2004. Oandu
<i>Epilobium angustifolium</i>	Rosebay Willowherb	Widespread and abundant.
<i>Epilobium hirsutum</i>	Great Willowherb	Common.
<i>Epilobium parviflorum</i>	Hoary Willowherb	2004. Scattered
<i>Cornaceae</i>		
<i>Cornus sanguinea</i>	Dogwood	Widespread and common.
<i>Araliaceae</i>		
<i>Hedera helix</i>	Ivy	Very rare in Estonia. Seen at Vidumae on Saaremaa. 2004. Kohala!
<i>Umbelliferae</i>		
<i>Hydrocotyle vulgaris</i>	Marsh Pennywort	2004. Tagamõisa Peninsula
<i>Sanicula europaea</i>	Sanicle	Scattered in woods.
<i>Astrantia major</i>	Greater Masterwort	2004. Pohja Kõrvemaa-Maastiku-Kaitseala
<i>Eryngium maritimum</i>	Sea Holly	2004. Tagamõisa Peninsula
<i>Anthriscus sylvestris</i>	Cow Parsley	Scattered records.
<i>Pimpinella major</i>	Great Burnet Saxifrage	2004. Tagamõisa Peninsula
<i>Pimpinella saxifraga</i>	Burnet Saxifrage	2004. Pohja Kõrvemaa-Maastiku-Kaitseala

<i>Aegopodium podagraria</i>	Ground Elder	Widespread and common.
<i>Sium latifolium</i>	Greater Water Parsnip	2004. Near Risti between Tallinn and Virtsu
<i>Berula erecta</i>	Lesser Water Parsnip	2004. South of Tallinn (Ian – after group left)
<i>Aethusa cynapium</i>	Fool's Parsley	2004. Between Tallinn and Virtsu
<i>Cicuta virosa</i>	Cowbane	In aquatic habitats.
<i>Carum carvi</i>	Caraway	2004. Scattered
<i>Cnidium dubium</i>	Cnidium	2004. Tagamõisa Peninsula
<i>Angelica sylvestris</i>	Angelica	Common.
<i>Angelica archangelica</i>	Garden Angelica	Recorded.
<i>Peucedanum palustre</i>	Milk Parsley	Widespread in wetlands.
<i>Pastinaca sativa</i>	Wild Parsnip	Common and widespread.
<i>Heracleum sibiricum</i>		Local.
<i>Heracleum mantegazzianum</i>	Giant Hogweed	Local.
<i>Laserpitium latifolium</i>	Broad-leaved Sermountain	2004. Vidumae
<i>Torilis japonica</i>	Upright Hedge Parsley	Scattered records.
<i>Daucus carota</i>	Wild Carrot	Scattered records.
 <i>Pyrolaceae</i>		
<i>Pyrola rotundifolia</i>	Round-leaved Wintergreen	Locally common in forests
<i>Pyrola norvegica</i>	Norwegian Wintergreen	2004. Plants undoubtedly of this species seen in many locations – it doesn't record it in the Baltic Flora but maybe it is included under <i>rotundifolia</i> ?
<i>Pyrola media</i>	Intermediate Wintergreen	2004. Scattered in east
<i>Pyrola minor</i>	Common Wintergreen	2004. Scattered – mostly in east
<i>Moneses uniflora</i>	One-flowered Wintergreen	2004. Scattered
<i>Chimaphila umbellata</i>	Umbellate Wintergreen	2004. Noted near Viru Bog and in good flower on the Tagamõisa Peninsula
<i>Orthilia secunda</i>	Toothed Wintergreen	Common in forests.
<i>Monotropa hypopitys</i>	Yellow Birdsnest	Near Viru Bog
 <i>Ericaceae</i>		
<i>Calluna vulgaris</i>	Heather	Widespread and abundant.
<i>Ledum palustre</i>	Labrador Tea	Very common in bogs.
<i>Andromeda polifolia</i>	Bog Rosemary	Locally very common, e.g. Viru Bog.
<i>Chamaedaphne calyculata</i>		2004. Endla Bog
<i>Vaccinium oxycoccus</i>	Cranberry	Locally abundant.
<i>Vaccinium microcarpum</i>	Small Cranberry	Common in bogs.
<i>Vaccinium vitis-idaea</i>	Cowberry	Widespread and abundant.
<i>Vaccinium myrtillus</i>	Bilberry	Widespread and abundant.
<i>Vaccinium uliginosum</i>	Northern Bilberry	Widespread and common.
<i>Arctostaphylos uva-ursi</i>	Bearberry	Widespread.
 <i>Empetraceae</i>		
<i>Empetrum nigrum</i>	Crowberry	Locally common.
 <i>Primulaceae</i>		
<i>Primula veris</i>	Cowslip	In seed locally.
<i>Primula farinosa</i>	Birds-eye Primrose	2004. Matsalu and Saaremaa
<i>Lysimachia vulgaris</i>	Yellow Loosestrife	Widespread.
<i>[Lysimachia nummularia]</i>	Creeping Jenny	Scattered records.]
<i>Lysimachia thyrsofolia</i>	Tufted Loosestrife	Local, e.g. Varangu.
<i>Trientalis europaea</i>	Chickweed Wintergreen	Scattered records.
<i>Glaux maritima</i>	Sea Milkwort	2004. Vilsandi and Tagamõisa Peninsula

Oleaceae

Fraxinus excelsior Ash Widespread.

Gentianaceae

Centaurium littorale Seaside Centaury Saaremaa.
[*Centaurium erythraea* Common Centaury Saaremaa.]
Centaurium pulchellum Lesser Centaury 2004. Matsalu

Menyanthaceae

Menyanthes trifoliata Bogbean Bogs in Lahemaa. 2004 and Saaremaa!

Rubiaceae

Asperula tinctoria Dyer's Woodruff Locally common.
Galium boreale Northern Bedstraw Widespread.
Galium verum Lady's Bedstraw Widespread and very common.
Galium aparine Cleavers Scattered records.
Galium album Upright Bedstraw Widespread.
Galium palustre Marsh Bedstraw 2004. Common

Convolvulaceae

Calystegia sepium Hedge Bindweed Scattered records.
Convolvulus arvensis Field Bindweed Common.

Boraginaceae

Echium vulgare Viper's Bugloss Common.
Pulmonaria officinalis Lungwort Lahemaa.
Symphytum officinalis Common Comfrey 2004. Varangu
Anchusa officinalis Alkanet Scattered records.
Myosotis arvensis Field Forget-me-not Scattered records.
Myosotis scorpioides Water Forget-me-not Common in suitable habitat.
Lappula squarrosa Bur Forget-me-not 2004. Tagamõisa Peninsula

Lamiaceae

Ajuga reptans Bugle 2004. Tagamõisa Peninsula.
Teucrium scordium Water Germander 2004. Tagamõisa Peninsula
Scutellaria galericulata Scull-cap Varangu.
Scutellaria hastifolia Spear-leaved Skullcap 2004. Tagamõisa Peninsula
Galeopsis bifida Bifid Hemp-nettle Scattered records.
Lamium album White Deadnettle Scattered records.
Lamium purpureum Red Deadnettle 2004. Kohala etc.
Lamiastrum galeobdolon Yellow Archangel Lahemaa.
[*Stachys palustris* Marsh Woundwort Widespread.]
Glechoma hederacea Ground Ivy Widespread.
Prunella vulgaris Self-heal Widespread.
Acinos arvensis Basil-Thyme 2004. Quite common on Saaremaa
Clinopodium vulgare Wild Basil Scattered records.
Origanum vulgare Marjoram Scattered records.
Thymus serpyllum Breckland Thyme Locally common.
Lycopus europaeus Gypsywort Scattered records.
Mentha aquatica Water Mint Lahemaa.
Mentha arvensis Corn Mint 2004. Saaremaa
Salvia nemorosa Wild Sage Occasional on roadsides.

Solanaceae

Solanum dulcamara Bittersweet Muhu Island.

Scrophulariaceae

Verbascum thapsus Aaron's Rod Common.
Verbascum nigrum Dark Mullein Common.
Scrophularia nodosa Common Figwort Lahemaa.
Chaneorhinum minus Small Toadflax 2004. Tagamõisa Peninsula
Linaria vulgaris Common Toadflax Locally common.
Cymbalaria muralis Ivy-leaved Toadflax 2004. Tallinn. Apparently not recorded in any of the Baltic States before!
Veronica longifolia Long-leaved Speedwell Scattered records.
Veronica austriaca teucrium Large Speedwell 2004. Recorded as *Veronica teucrium* in the Baltic Flora. Kohala
Veronica spicata Spiked Speedwell Scattered records.
Veronica officinalis Heath Speedwell Scattered records.
Veronica chamaedrys Germander Speedwell Scattered records.
Veronica beccabunga Brooklime Widespread in suitable habitat.
Veronica anagallis-aquatica Blue Water Speedwell Scattered records.
Veronica scutellata Marsh Speedwell 2004. Matsalu and Saaremaa
Odontites vulgaris Widespread.
Odontites littoralis Vilsandi Island.
Melampyrum pratense Common Cow-wheat Widespread and very common.
Melampyrum sylvaticum Small Cow-wheat Common.
Melampyrum arvense Field Cow-wheat Scattered records.
Melampyrum nemorosum Widespread and locally abundant.
Melampyrum cristatum Crested Cow-wheat 2004. Tagamõisa Peninsula
Euphrasia nemorosa Wind Eyebright 2004. Tagamõisa Peninsula
Pedicularis palustris Red Rattle 2004. Vidumae
Pedicularis sceptrum-carolinum Moor King 2004. Some fine plants near Vidumae!!
Rhinanthus minor Yellow Rattle Scattered records.
Rhinanthus serotinus 2004. Pohja Kõrvemaa-Maastiku-Kaitseala
Rhinanthus osiliensis 2004. Very rare endemic of western Saaremaa seen in a couple of places on the Tagamõisa Peninsula

Orobanchaceae

Orobanche sp. A robust yellow species apparently parasitic on umbellifers seen at Pohja-Kõrvemaa maastiku-kaitsealu.

Lentibulariaceae

Pinguicula vulgaris Common Butterwort In leaf on Saaremaa. 2004 in flower at Varangu
Pinguicula alpina Alpine Butterwort 2004. In leaf in the ditch by the HQ at Vidumae

Plantaginaceae

Plantago major Greater Plantain
Plantago media Hoary Plantain
Plantago lanceolata Ribwort Plantain
Plantago maritima Sea Plantain

Caprifoliaceae

Sambucus racemosa Red-berried Elder Widespread. Not native.
Sambucus nigra Elder Scattered. Not native.
Viburnum opulus Guelder Rose Scattered records.

<i>Viburnum lantana</i>	Wayfaring Tree	2004. Scattered
<i>Lonicera xylosteum</i>	Fly Honeysuckle	2004. Scattered
<i>Linnaea borealis</i>	Twinflower	Local in boggy forests.
<i>Valerianaceae</i>		
[<i>Valeriana officinalis</i>	Common Valerian	Widespread.]
<i>Valeriana sambucifolia</i>		2004. Widespread
<i>Dipsacaceae</i>		
<i>Knautia arvensis</i>	Field Scabious	Widespread and common.
<i>Succisia pratensis</i>	Devil's-bit Scabious	Scattered
<i>Campanulaceae</i>		
<i>Campanula rotundifolia</i>	Harebell	Widespread and common.
<i>Campanula persicifolia</i>	Peach-leaved Bellflower	Widespread and common.
<i>Campanula patula</i>	Spreading Bellflower	Widespread.
<i>Campanula glomerata</i>	Clustered Bellflower	Widespread and common.
<i>Campanula latifolia</i>	Giant Bellflower	Scattered records.
<i>Campanula trachelium</i>	Nettle-leaved Bellflower	Scattered records.
<i>Campanula rapunculoides</i>	Creeping Bellflower	Widespread and common.
[<i>Jasione montana</i>	Sheepsbit Scabious	Scattered records.]
<i>Asteraceae</i>		
<i>Solidago virgaureae</i>	Golden-rod	Widespread and very common.
<i>Bellis perennis</i>	Daisy	Varangu.
<i>Aster tripolium</i>	Sea Aster	Local on coasts.
<i>Erigeron acer</i>	Blue Fleabane	Widespread.
<i>Inula salicina</i>	Irish Fleabane	Locally common.
<i>Antennaria dioica</i>	Mountain Everlasting	2004. Varangu
<i>Anthemis tinctoria</i>	Yellow Chamomile	Scattered records.
<i>Achillea millefolium</i>	Yarrow	Common.
<i>Leucanthemum vulgare</i>	Ox-eye Daisy	Widespread.
<i>Artemisia vulgaris</i>	Mugwort	Common.
<i>Artemisia absinthium</i>	Wormwood	Widespread.
<i>Artemisia maritimum</i>	Sea Wormwood	Western Saaremaa coasts.
<i>Artemisia campestris</i>	Field Wormwood	Widespread.
<i>Tanacetum vulgare</i>	Tansy	Widespread.
<i>Senecio vulgaris</i>	Groundsel	
<i>Senecio jacobaea</i>	Ragwort	
<i>Tussilago farfara</i>	Coltsfoot	2004. Varangu
<i>Petasites hybridus</i>	Butterbur	2004. Kohala etc.
[<i>Arctium lappa</i>	Greater Burdock]
<i>Arctium tomentosum</i>		
<i>Matricaria discoidea</i>	Pineapple Mayweed	Common.
<i>Matricaria perforata</i>	Scentless Mayweed	2004. Kohala etc.
<i>Carlina vulgaris</i>	Carlina Thistle	2004. Saaremaa
[<i>Carduus nutans</i>	Musk Thistle	Widespread.]
<i>Carduus crispus</i>	Wetted Thistle	Common.
[<i>Saussurea esthonica</i>		Finished flowering at Varangu. Endemic in the Baltic Countries.]
<i>Cirsium arvense</i>	Creeping Thistle	Very common.
<i>Cirsium vulgare</i>	Spear Thistle	Very common.
<i>Cirsium palustre</i>	Marsh Thistle	Common.
<i>Cirsium acaule</i>	Dwarf Thistle	Saaremaa.
<i>Cirsium heterophyllum</i>		2004. Kohala

<i>Cirsium oleraceum</i>	Cabbage Thistle	Widespread and common.
<i>Centaurea scabiosa</i>	Greater Knapweed	Scattered.
<i>Centaurea jacea</i>	Brown Knapweed	Widespread and very common.
<i>Hypochoeris maculata</i>	Spotted Cat's-ear	2004. Pohja-Korvemaa maastiku-kaitsealu
<i>Cichorium intybus</i>	Chicory	Roadsides.
[<i>Arnoseris minima</i>	Lamb's Succory	Scattered records.]
<i>Tragopogon pratensis</i>	Goatsbeard	Scattered records.
<i>Scorzonera humilis</i>	Viper's-Grass	2004. Saaremaa
<i>Mycelis muralis</i>	Wall Lettuce	Common.
[<i>Lapsana communis</i>	Nipplewort	Scattered records.]
<i>Taraxacum officinale</i>	Dandelion	Widespread.
<i>Leontodon hispidus</i>	Rough Hawkbit	2004. Kohala
<i>Crepis paludosa</i>	Marsh Hawk's-beard	2004. Widespread
<i>Hieracium umbellata</i>	Leafy Hawkweed	2004. Scattered
<i>Hieraceum pilosella</i>	Mouse-ear Hawkweed	2004. Widespread

Monocotyledons

Alismataceae

<i>Alisma plantago-aquatica</i>	Water Plantain	Scattered in aquatic habitats.
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Scheuchzeriaceae

<i>Scheuchzeria palustris</i>	Rannoch Rush	Very common in seed in bogs.
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Juncaginaceae

<i>Triglochin maritimum</i>	Sea Arrow-Grass	Vilsandi Island.
<i>Triglochin palustre</i>	Marsh Arrow-Grass	2004. Varangu and Vilsandi

Potamogetonaceae

<i>Potamogeton natans</i>	Broad-leaved Pondweed	Widespread
<i>Potamogeton crispus</i>	Curled Pondweed	2004. Varangu
<i>Zostera marina</i>	Eel-Grass	2004. Tagamõisa Peninsula

Sparganiaceae

[<i>Sparganium glomeratum</i>		Scattered records.]
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Liliaceae

<i>Allium ursinum</i>	Ramsons	Abundant near Kunda.
<i>Allium schoenoprasum</i>	Chives	2004. Tagamõisa Peninsula
<i>Allium vineale</i>	Crow Garlic	2004. Tagamõisa Peninsula
<i>Allium oleraceum</i>	Field Garlic	Vilsandi Island.
<i>Convallaria majalis</i>	Lily of the Valley	Widespread and very common in leaf.
<i>Maianthemum bifolium</i>	May Lily	Common.
<i>Tofieldia calyculata</i>	German Asphodel	2004. Tagamõisa Peninsula
<i>Paris quadrifolia</i>	Herb Paris	Scattered records.
<i>Polygonatum odoratum</i>	Angular Solomon's Seal	Scattered records.

Iridaceae

[<i>Iris pseudacorus</i>	Yellow Flag	Scattered records.]
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Juncaceae

<i>Luzula pilosa</i>		2004. Widespread
<i>Luzula multiflora</i>		2004. Varangu
<i>Juncus gerardii</i>		2004. Scattered in the Tagamōisa Peninsula
[<i>Juncus filiformis</i>	Thread Rush]
<i>Juncus effusus</i>	Soft Rush	
[<i>Juncus conglomeratus</i>	Compact Rush]
<i>Juncus compressus</i>	Round-fruited Rush	
<i>Juncus bufonius</i>	Toad Rush	
<i>Juncus articulatus</i>	Jointed Rush	

Poaceae

<i>Festuca gigantea</i>		2004. Varangu
[<i>Festuca altissima</i>	Wood Fescue]
[<i>Festuca ovina</i>	Sheep's Fescue]
[<i>Festuca rubra</i>	Red Fescue]
<i>Lolium perenne</i>	Perennial Ryegrass	
<i>Poa annua</i>	Annual Meadow-grass	
<i>Poa trivialis</i>	Rough Meadow-grass	
<i>Dactylis glomerata</i>	Cocksfoot	Widespread
<i>Briza media</i>	Quaking Grass	
<i>Milium effusum</i>		2004. Scattered
<i>Melica nutans</i>		2004. Scattered
<i>Bromus inermis</i>	Hungarian Brome	
[<i>Bromus hordeaceus</i>	Soft Brome]
<i>Avena fatua</i>	Wild Oat	
<i>Deschampsia cespitosa</i>	Tufted Hair-grass	
<i>Deschampsia flexuosa</i>	Wavy Hair-grass	2004. Kohala
[<i>Hierochloa australis</i>	Southern Holy Grass]
<i>Anthoxanthum odoratum</i>	Sweet Vernal Grass	
<i>Agrostis canina</i>	Velvet Bent	
<i>Agrostis stolonifera</i>	Creeping Bent	2004. Scattered
<i>Calamagrostis canescens</i>	Purple Small-reed	
[<i>Calamagrostis arundinacea</i>	Rough Small-reed]
<i>Phleum pratense</i>	Timothy	
<i>Alopecurus pratensis</i>	Meadow Foxtail	
<i>Hordeum jubatum</i>		2004. Tagamōisa Peninsula
<i>Elytrigia arenaria</i>	Couch	2004. Kohala
<i>Phalaris arundinacea</i>	Reed Canary-grass	
<i>Phragmites australis</i>	Common Reed	
<i>Molinia caerulea</i>	Purple Moor-grass	
<i>Nardus stricta</i>	Mat Grass	
[<i>Helictotrichon pratense</i>]
<i>Leymus arenarius</i>	Lyme Grass	

Araceae

<i>Calla palustris</i>	Bog Arum	Scattered in bogs.
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Lemnaceae

<i>Lemna minor</i>	Common Duckweed	
<i>Lemna trisulca</i>		2004. Varangu

Typhaceae

<i>Typha latifolia</i>	Bulrush	Widespread.
<i>Typha angustifolia</i>	Lesser Bulrush	Scattered records.

Cyperaceae

Scirpus sylvaticus

Schoenoplectus lacustris

Schoenoplectus tabernaemontani

Blysmus compressus

Eriophorum vaginatum

Trichophorum cespitosum

Eleocharis spp

Cladium mariscus

Rhynchospora alba

[*Carex dioica*

Carex pulicaris

[*Carex pauciflora*

Carex hirta

Carex pseudocyperus

Carex rhynchophysa

[*Carex lasiocarpa*

Carex acutiformis

Carex rostrata

Carex vesicaria

Carex flacca

Carex panicea

Carex vaginata

Carex distans

Carex hostiana

Carex flava

Carex lepidocarpa

Carex demissa

Carex serotina

Carex (x) *bergrothii*

Carex pallescens

Carex ornithopoda

Carex magellanica

Carex buxbaumii

[*Carex cespitosa*

Carex nigra

Carex acuta

Carex appropinquata

Carex diandra

Carex otrubae

Carex divulsa

Carex contigua

Carex disticha

Carex arenaria

Carex leporina

Carex echinata

Carex canescens

Carex brunnescens

Blysmus

Haretail Cotton Grass

White Beaked Sedge

Dioecious Sedge

Flea Sedge

Few-flowered Sedge

Hairy Sedge

Cyperus Sedge

Slender Sedge

Lesser Pond Sedge

Bottle Sedge

Bladder Sedge

Glaucous Sedge

Carnation Sedge

Sheathed Sedge

Distant Sedge

Tawny Sedge

Large Yellow Sedge

Long-stalked Yellow Sedge

Common Yellow Sedge

Small-fruited Yellow Sedge

Pale Sedge

Bird's-foot Sedge

Bog Sedge

Club Sedge

Common Sedge

Slender Tufted Sedge

Fibrous Tussock Sedge

Lesser Tussock Sedge

False Fox Sedge

Grey/Leers' Sedge

Brown Sedge

Sand Sedge

Oval Sedge

Star Sedge

2004. Widespread

2004. Matsalu

2004. Matsalu. Apparently often grows in the sea in Estonia so presumably this was the *S. maritimus* we saw at Virtsu?

2004. Tagamõisa Peninsula

Common in bogs.

2004. Widespread in bogs

2004. Several noted

2004. Tagamõisa Peninsula by lake

2004. Viru Bog

]

2004. Vilsandi Island

]

Widespread

2004. Oandu etc.

2004. A large stand by the springs at Varangu

]

Varangu

Viru Bog

Tagamõisa Peninsula

Widespread

Widespread

2004. Varangu

2004. Vilsandi Island

2004. Widespread

Varangu

2004. Vilsandi Island

2004. Vilsandi Island

Vilsandi Island

2004. Tagamõisa Peninsula and Vilsandi Island

Widespread in meadows

Varangu along woodland paths

2004. Bogs – e.g. Viru and Endla

2004. Common in seasonally inundated parts of the Tagamõisa Peninsula

]

Scattered

Scattered

2004. Tagamõisa Peninsula

2004. Varangu

2004. Varangu

?2004. Though the Baltic Flora suggests that specimens identified as this species in Estonia are contiguous plants found on the coast of the Tagamõisa Peninsula seemed to be closer to this species?

2004. Vidumae and Tagamõisa Peninsula

2004. Varangu

2004. Coasts of Tagamõisa Peninsula

2004. Formerly known as *Carex ovalis*. Pohja-Korvemaa maastiku-kaitsealu

Oandu

2004. Pohja-Korvemaa maastiku-kaitsealu

2004. Oandu

Orchidaceae

<i>Cypripedium calceolus</i>	Lady's Slipper	Many plants in seed at Varangu.
<i>Epipactis palustris</i>	Marsh Helleborine	Common on Vilsandi, also at Varangu. 2004. Very common on the Tagamõisa Peninsula and Vilsandi
<i>Epipactis helleborine</i>	Broad-leaved Helleborine	2004. Scattered in leaf and some very large plants in bud on Saaremaa
<i>Epipactis atrorubens</i>	Dark Red Helleborine	Scattered records.
<i>Cephalanthera rubra</i>	Red Helleborine	2004. Common in north of Tagamõisa Peninsula
<i>Listera cordata</i>	Lesser Twayblade	2004. Oandu
<i>Listera ovata</i>	Twayblade	2004. Scattered throughout
<i>Neottia nidus-avis</i>	Bird's-nest Orchid	Dead spikes widespread in woods. 2004 some live ones at Varangu
<i>Spiranthes spiralis</i>	Autumn Lady's Tresses	A few in early flower at Lahemaa.
<i>Goodyera repens</i>	Creeping Lady's Tresses	Common in forests.
<i>Herminium monorchis</i>	Musk Orchid	Vilsandi National Park. 2004. Several places on the Tagamõisa Peninsula
<i>Liparis loeselii</i>	Fen Orchid	2004. A large colony near Kihelkonna with one still in good flower and another smaller colony seen, both Tagamõisa Peninsula
<i>Platanthera bifolia</i>	Lesser Butterfly Orchid	In seed at Vilsandi. 2004. Widespread – many in flower
<i>Platanthera chlorantha</i>	Greater Butterfly Orchid	Scattered records. 2004 only in flower on the Tagamõisa Peninsula
<i>Gymnadenia conopsea</i>	Fragrant Orchid	Several on Saaremaa.
<i>Ancampsis pyramidalis</i>	Pyramidal Orchid	2004. A few in flower northwest Tagamõisa Peninsula
<i>Orchis militaris</i>	Military Orchid	2004. In seed only. Matsalu and Tagamõisa Peninsula
<i>Orchis ustulata</i>	Burnt-tip Orchid	2004. In flower Tagamõisa Peninsula
<i>Dactylorhiza incarnata</i>	Early Marsh Orchid	In flower at Toolse. 2004. Scattered
<i>Dactylorhiza cruenta</i>		2004. Flowers just finishing. Couple of places on the Tagamõisa Peninsula
<i>Dactylorhiza longifolia</i>		2004. AKA <i>D. baltica</i> . Good colonies on Vilsandi and on the northern tip of Tagamõisa Peninsula
<i>Dactylorhiza fuchsii</i>	Common Spotted Orchid	Widespread.
<i>Dactylorhiza curvifolia</i>		AKA <i>D. russowei</i> . In flower at Letipea. 2004. In good flower at three locations on the Tagamõisa Peninsula
<i>Dactylorhiza ruthei</i>		2004. A couple of flowers at Vidumae – a very rare species. But what were the <i>Dactylorhizas</i> growing nearby?
<i>Ophrys insectifera</i>	Fly Orchid	In seed at Vilsandi. 2004. In flower at several spots on the Tagamõisa Peninsula
<i>Malaxis monophyllos</i>	One-leaved Bog Orchid	c.8 at Letipea, and several at Varangu. 2004. Several localities in the east

Systematic List Number 2 Butterflies

The systematic order and nomenclature follow Tolman and Lewington 'Butterflies of Britain and Europe'.

Summary of Locations

Day 1	July 15 th	Tallinn to Kohala
Day 2	July 16 th	Lahemaa - Oandu
Day 3	July 17 th	Kohala
Day 4	July 18 th	Lahemaa – Viru Bog and Pohja Körvemaa-Maastiku-Kaitseala
Day 5	July 19 th	Endla Bog and Varangu Springs
Day 6	July 20 th	Kohala to Saaremaa (Loona)
Day 7	July 21 st	Saaremaa – Vidumae & the western Tagamõisa Peninsula
Day 8	July 22 nd	Saaremaa – Vilsandi Island & the northern and eastern Tagamõisa Peninsula
Day 9	July 23 rd	Saaremaa to Tallinn
Day 10	July 24 th	Departure

Papilionidae

Swallowtail	<i>Papilio machaon</i>	Pohja Körvemaa-Maastiku-Kaitseala and Vidumae
Apollo	<i>Parnassius apollo</i>	David Godfrey has photos of what looks very like caterpillars of this species from Kohala

Pieridae

Large White	<i>Pieris brassicae</i>	Widespread
Black-veined White	<i>Aporia crataegi</i>	Only seen at Vidumae
Small White	<i>Artogeia rapae</i>	Widespread
Green-veined White	<i>Artogeia napi</i>	Widespread
Orange-tip	<i>Anthocharis cardamines</i>	Noted at Kohala
Moorland Clouded Yellow	<i>Colias palaeno</i>	Scattered throughout
Pale Clouded Yellow	<i>Colias hyale</i>	Only seen at Oandu
Brimstone	<i>Gonepteryx rhamni</i>	Korvemaa Mka – after group had left (Ian)

Lycaenidae

Purple Hairstreak	<i>Quercusia quercus</i>	Kohala
Small Copper	<i>Lycaena phlaeas</i>	Kohala
Large Copper	<i>Lycaena dispar</i>	Varangu Springs and Tagamõisa Peninsula on Saaremaa
Scarce Copper	<i>Lycaena virgaureae</i>	Widespread
Purple-edged Copper	<i>Lycaena hippothoe</i>	David Godfrey photographed one at Kohala
Little Blue	<i>Cupido minimus</i>	Scattered
Large Blue	<i>Maculinea arion</i>	A male on Vilsandi and another Korvemaa Mka – after group had left (Ian)
Silver-studded Blue	<i>Plebejus argus</i>	Widespread and locally very common
Cranberry Blue	<i>Vacciniina optilete</i>	Several small colonies
Mazarine Blue	<i>Cyaniris semiargus</i>	Singles at Varangu Spring and Vidumae
Amanda's Blue	<i>Agrodiaetus amanda</i>	Widespread
Common Blue	<i>Polyommatus icarus</i>	Widespread and common

Nymphalidae

Purple Emperor	<i>Apatura iris</i>	Locally quite common
Poplar Admiral	<i>Limnitis populi</i>	A dead one found on the Tagamõisa Peninsula
White Admiral	<i>Limnitis camilla</i>	1 at Varangu Spring and 2 at Vidumae

Large Tortoiseshell	<i>Nymphalis polychloros</i>	1 at Korvemaa Mka – after group had left (Ian)
Peacock	<i>Inachis io</i>	1 at Vidumae
Red Admiral	<i>Vanessa atalanta</i>	Very scarce – noted on only two days.
Small Tortoiseshell	<i>Aglais urticae</i>	Scattered
Comma	<i>Polygona c-album</i>	1 at Korvemaa Mka – after group had left (Ian)
Map Butterfly	<i>Araschnia levana</i>	A few at Korvemaa Mka – after group had left (Ian)
Silver-washed Fritillary	<i>Argynnis paphia</i>	Quite common at Korvemaa Mka – after group had left (Ian). The small and beautifully marked fritillary by the Musk Orchid site on the Tagamõisa Peninsula was this species and not Pallas's
Dark Green Fritillary	<i>Argynnis aglaja</i>	Locally common
High Brown Fritillary	<i>Argynnis adippe</i>	Uncommon – noted on 2 days
Lesser Marbled Fritillary	<i>Brenthis ino</i>	Only seen at Matsalu
Cranberry Fritillary	<i>Boloria aquilonaris</i>	Pohja Kõrvemaa-Maastiku-Kaitseala and at Endla
Pearl-bordered Fritillary	<i>Clossiana euphrosyne</i>	Scattered in low numbers
Glanville Fritillary	<i>Melitaea cinxia</i>	1 at Pohja Kõrvemaa-Maastiku-Kaitseala
Heath Fritillary	<i>Mellicta athalia</i>	Widespread and common
Nickerl's Fritillary	<i>Mellicta aurelia</i>	Locally common

Satyridae

Common Grayling	<i>Hipparchia semele</i>	Noted on the Tagamõisa Peninsula and Vilsandi Island
Lapland Ringlet	<i>Erebia embla</i>	1 at Korvemaa Mka – after group had left (Ian)
Meadow Brown	<i>Maniola jurtina</i>	Widespread.
Dusky Meadow Brown	<i>Hyponephele lycaon</i>	Possibly this species at Matsalu
Ringlet	<i>Aphantopus hyperantus</i>	Very common and widespread
Large Heath	<i>Coenonympha tullia</i>	Tagamõisa Peninsula and elsewhere on Saaremaa
Chestnut Heath	<i>Coenonympha glycerion</i>	Common in the Lahemaa area
Northern Wall Brown	<i>Lasiommata petropolitana</i>	?Probably this species at Varangu Spring and at Korvemaa Mka – after group had left (Ian)
Woodland Brown	<i>Lopinga achine</i>	Several at Vidumae Nature Reserve

Hesperiidae

Essex Skipper	<i>Thymelicus lineola</i>	Rather uncommon
Small Skipper	<i>Thymelicus sylvestris</i>	Scattered
Large Skipper	<i>Ochlodes venatus</i>	Reasonably common
Silver-spotted Skipper	<i>Hesperia comma</i>	1 at Pohja Kõrvemaa-Maastiku-Kaitseala

List Number 3 Moths

Most of the species below were taken at light at Kohala Mõis and on Saaremaa Island. Two moth traps were operated nightly by Tim Crafer and the catch examined each morning. Other species were noted on our daytime excursions. Only Macro moths which were recognised are recorded. The number of species would have been considerably larger had the nights been warmer, as was illustrated on the last evening which was warm and the catch increased by about 200%. Unfortunately, Paul Cardy had to leave us on the second day because of an emergency and this deprived us of his unique knowledge of Lepidoptera. As a result, there were many other species (up to 50) caught but which were not recognised. The moths with Latin names at the end do not occur in England and have no English name.

Antler
Barred Carpet
Beautiful Carpet
Beautiful Hook-tip
Bird's Wing
Black Rustic
Blackneck
Blomer's Rivulet
Blotched Emerald
Bordered Pug
Bright-line Brown-eye
Broom Moth
Brown Rustic
Brown Scallop
Brown-line Bright-eye
Buff Arches
Buff Ermine
Buff Tip
Burnished Brass
Campion
Chimney Sweeper
Cinnabar
Clay
Clouded Buff
Clouded Magpie
Clouded-bordered Brindle
Common Carpet
Common Emerald
Common Footman
Common Heath
Common Lutestring
Common Wainscot
Common Wave
Common White Wave
Coxcomb Prominent
Crescent
Dark-barred Twin -spot Carpet
Dark Marbled Carpet
Dew Moth
Dot Moth
Double Square Spot
Drinker

Dusky Hook-tip
Dwarf Cream Wave
Eyed Hawkmoth
Fan-foot
Flame
Four-dotted Footman
Frosted Orange
Garden Tiger
Ghost Moth
Great Oak Beauty
Green Arches
Green Carpet
Grey Arches
Ground Lackey
Heart and Club
Heart and Dart
Lackey Lappet
Large Emerald
Latticed Heath
Lesser Cream Wave
Lesser Swallow Prominent
Light Arches
Lilac Beauty
Lychnis
Map-winged Swift
Maple Prominent
Marbled Coronet
Marbled Minor
Middle-barred Minor
Mottled Beauty
Mottled Rustic
Narrow-bordered Five-spot Burnet
Netted Carpet
Netted Pug
Northern Spinach
Orange Moth
Orange Swift
Pebble Hook-tip
Peppered Moth
Phoenix
Pine Hawkmoth
Pine-tree Lappet
Plain Golden Y
Pod Lover
Portland Ribbon Wave
Purple Bar
Purple Thorn
Purple Treble-bar
Rannoch Looper
Red Carpet
Riband Wave
Ringed Carpet
Round-winged Muslin
Ruby Tiger
Rustic
Sandy Carpet

Satellite
Satin Beauty
Satin Wave
Scarce Forrester
Shaded Broad-bar
Shaded Fan-foot
Shark
Sharp-angled Carpet
Short-cloaked
Shoulder-striped Wainscot
Silver-ground Carpet
Silvery Arches
Single-dotted Wave
Small Fan-footed Wave
Small Scallop
Small Yellow Wave
Smoky Wainscot
Snout
Spectacle
Straw Dot
Swallow-tailed Moth
Sycamore
Tawny Speck Pug
Tawny-barred Angle
Toadflax Pug
Treble Brown Spot
Treble-bar
True Lover's Knot
Turnip Moth
Uncertain
V-moth
Varied Coronet
White Ermine
Willow Beauty
Wood Tiger

Arichanna melanaria
Ecliptopoa capitata
Scotopteryx moeniata
Xanthorhoe ferrugata

Systematic List Number 4 Birds

Black-throated Diver	<i>Gavia arctica</i>	3 seen along the coast at Litipea & Saaremaa.
Cormorant	<i>Phalacrocorax carbo</i>	Scattered records.
Grey Heron	<i>Ardea cinerea</i>	Common & widespread.
Black Stork	<i>Ciconia nigra</i>	2 seen early morning, Loona Manor
White Stork	<i>Ciconia ciconia</i>	Very common & widespread on the mainland, none were recorded at Saaremaa Island.
Mute Swan	<i>Cygnus olor</i>	Common & widespread, with large numbers off Vilsandi Island.
Greylag Goose	<i>Anser anser</i>	Scattered records across Saaremaa Island
Barnacle Goose	<i>Branta leucopsis</i>	Several individuals recorded at the small islands on the way to Vilsandi Island.
Teal	<i>Anas crecca</i>	2 records at Kohala & Saaremaa Island
Mallard	<i>Anas platyrhynchos</i>	Common & widespread.
Scaup	<i>Aythya fuligula</i>	A pair seen at the ferry crossing at Virtsu.
Eider	<i>Somateria mollissima</i>	Several seen at Altja & Virtsu ferry crossing.
Goldeneye	<i>Bucephala clangula</i>	Scattered records.
Common Scoter	<i>Melanitta nigra</i>	Several seen on the water on the way to Vilsandi Island.
Red-breasted Merganser	<i>Mergus serrator</i>	Several coastal sightings.
Honey Buzzard	<i>Pernis apivorus</i>	One at Kohala & Endla Bog.
Black Kite	<i>Milvus migrans</i>	One seen at Viru Bog.
Marsh Harrier	<i>Circus aeruginosus</i>	Common around Lahemaa & Kohala, elsewhere
Montagu's Harrier	<i>Circus pygargus</i>	Scattered sightings around Lahemaa.
Hen Harrier	<i>Circus cyaneus</i>	Scattered sightings around Lahemaa.
Goshawk	<i>Accipiter gentilis</i>	Several sightings & calls, around several woodland sites.
Sparrowhawk	<i>Accipiter nisus</i>	Scattered records.
Common Buzzard	<i>Buteo buteo</i>	Common & widespread.
White-tailed Eagle	<i>Haliaeetus albicilla</i>	One seen flying over at Matsalu Nature Reserve.
Lesser-spotted Eagle	<i>Aquila pomarina</i>	Several recordings at Kohala, possible of the same bird.
Kestrel	<i>Falco tinnunculus</i>	Sightings mainly seen along the roadside.
Hobby	<i>Falco subbuteo</i>	Several sightings around Kohala & Lahemaa.
Hazel Grouse	<i>Bonasa bonasia</i>	2 birds recorded then flushed by Henry at Pohja Korvemaa, and 1 seen at Varangu Springs.
Water Rail	<i>Rallus aquaticus</i>	One calling at Matsalu Nature Reserve.
Corncrake	<i>Crex crex</i>	Very common at Kohala.
Coot	<i>Fulica atra</i>	2 seen on the causeway, joining Muhu Island with Saaremaa.
Common Crane	<i>Grus grus</i>	Common & widespread.
Oystercatcher	<i>Haematopus ostralegus</i>	Scattered records.
Ringed Plover	<i>Charadrius hiaticula</i>	Recorded along the coast at Tagamoisa Peninsula.
Snipe	<i>Gallinago gallinago</i>	Several individuals flushed at Matsula & Vilsandi Island.
Woodcock	<i>Scolopax rusticola</i>	2 seen roding late evening at Kohala.
Lapwing	<i>Vanellus vanellus</i>	Widespread sightings.
Whimbrel	<i>Numenius phaeopus</i>	Individuals recorded at Tagamoisa Peninsula & Vilsandi Island.
Greenshank	<i>Tringa nebularia</i>	1 seen at Vilsandi Island.
Redshank	<i>Tringa totanus</i>	1 recorded at Vilsandi Island.
Green Sandpiper	<i>Tringa ochropus</i>	Scattered records.
Common Sandpiper	<i>Actitis hypoleuca</i>	Scattered sightings.
Great Black-backed Gull	<i>Larus marinus</i>	Scattered records.

Lesser Black-backed Gull	<i>Larus fuscus</i>	Scattered records.
Black-headed Gull	<i>Larus ridibundus</i>	Common & widespread.
Common Gull	<i>Larus canus</i>	Common & widespread.
Herring Gull	<i>Larus argentatus</i>	Common & widespread.
Little Gull	<i>Larus minutus</i>	1 recorded sitting on a rock near Vilsandi Island.
Common Tern	<i>Sterna hirundo</i>	Scattered records.
Arctic Tern	<i>Sterna paradisaea</i>	Sightings recorded at Litipea & Vilsandi Island.
Little Tern	<i>Sterna albifrons</i>	Individuals recorded on the small islands, on the way to Vilsandi Island.
Caspian Tern	<i>Sterna caspia</i>	juvenile recorded at Tagamoisa Peninsula.
Rock Dove	<i>Columba livia</i>	Feral Pigeon widespread.
Stock Dove	<i>Columba oenas</i>	Single records.
Woodpigeon	<i>Columba palumbus</i>	Common & widespread.
Tawney Owl	<i>Strix aluco</i>	Individuals heard regularly at Kohala.
Common Swift	<i>Apus apus</i>	Common & widespread.
Kingfisher	<i>Alcedo atthis</i>	1 seen at Varangu Springs.
Wryneck	<i>Jynx torquilla</i>	Several individuals recorded at Kohala, Matsula & Saaremaa Island.
Great Spotted Woodpecker	<i>Dendrocopos major</i>	Scattered records.
Lesser-spotted Woodpecker	<i>Dendrocopos minor</i>	1 seen at Kohala.
Skylark	<i>Alauda arvensis</i>	Widespread in the meadows.
Woodlark	<i>Lullula arborea</i>	Scattered records.
Swallow	<i>Hirundo rustica</i>	Common & widespread.
House Martin	<i>Delichon urbica</i>	Common & widespread.
Tree Pipit	<i>Anthus trivialis</i>	Common & widespread.
Meadow Pipit	<i>Anthus pratensis</i>	Scattered records.
Yellow Wagtail	<i>Motacilla flava</i>	1 seen at Endla Bog & Saaremaa Island.
White Wagtail	<i>Motacilla alba</i>	Common & widespread.
Wren	<i>Troglodytes troglodytes</i>	Scattered records.
Robin	<i>Erithacus rubecula</i>	Common & widespread.
Redstart	<i>Phoenicurus phoenicurus</i>	Widespread at Lahemaa & surrounding environs.
Whinchat	<i>Saxicola rubetra</i>	Scattered records.
Stonechat	<i>Saxicola torquata</i>	1 recorded at Lahemaa.
Northern Wheatear	<i>Oenanthe oenanthe</i>	Scattered records.
Blackbird	<i>Turdus merula</i>	Common & widespread.
Mistle Thrush	<i>Turdus viscivorus</i>	Widespread at Kohala & Lahemaa environs.
Song Thrush	<i>Turdus philomelos</i>	Scattered records.
Redwing	<i>Turdus iliacus</i>	Individuals recorded at Kohala & Matsula.
Fieldfare	<i>Turdus pilaris</i>	Common around Kohala & Lahemaa.
Grasshopper Warbler	<i>Locustella naevia</i>	Widespread around wet marshy sites on the mainland.
River Warbler	<i>Locustella fluviatilis</i>	Common at Kohala.
Sedge Warbler	<i>Acrocephalus schoenobaenus</i>	Scattered records.
Marsh Warbler	<i>Acrocephalus arundinaceus</i>	Recorded at Kohala & Varangu Springs.
Icterine Warbler	<i>Hippolais icterina</i>	Recorded at several sites.
Barred Warbler	<i>Sylvia nisoria</i>	1 recorded in bushes at a road side stop.
Lesser Whitethroat	<i>Sylvia curruca</i>	Scattered records.
Common Whitethroat	<i>Sylvia communis</i>	Common & widespread.
Garden Warbler	<i>Sylvia borin</i>	Single sightings recorded.
Blackcap	<i>Sylvia atricapilla</i>	Common & widespread.
Greenish Warbler	<i>Phylloscopus trochiloides</i>	Several individuals recorded near Loona Manor.
Wood Warbler	<i>Phylloscopus sibilatrix</i>	Widespread in forest sites.
Chiffchaff	<i>Phylloscopus collybita</i>	Heard regularly, common & widespread.
Willow Warbler	<i>Phylloscopus</i>	Recorded at several sites.
Goldcrest	<i>Regulus regulus</i>	Scattered records.
Spotted Flycatcher	<i>Muscicapa striata</i>	Common & widespread.

Pied Flycatcher	<i>Ficedula hypoleuca</i>	An individuals recorded near Kohala.
Red-breasted Flycatcher	<i>Ficedula parva</i>	One individual recorded at Kohala.
Long-tailed Tit	<i>Aegithalos caudatus</i>	A feeding flock recorded near Loona Manor.
Marsh Tit	<i>Parus palustris</i>	Scattered records.
Willow Tit	<i>Parus montanus</i>	Several individuals recorded.
Crested Tit	<i>Parus cristatus</i>	Lahemaa.
Coal Tit	<i>Parus ater</i>	Scattered records.
Great Tit	<i>Parus major</i>	Common & widespread.
Blue Tit	<i>Parus caeruleus</i>	Common & widespread.
Nuthatch	<i>Sitta europaea</i>	Scattered records.
Common Treecreeper	<i>Certhia familiaris</i>	An individual recorded near Loona Manor.
Red-backed Shrike	<i>Lanius collurio</i>	Common & widespread.
Jay	<i>Garrulus glandarius</i>	Scattered records.
Magpie	<i>Pica pica</i>	Common & widespread.
Jackdaw	<i>Corvus monedula</i>	Common & widespread on Saaremaa Island.
Rook	<i>Corvus frugilegus</i>	Scattered records.
Hooded Crow	<i>Corvus (corone) cornix</i>	Common & widespread.
Raven	<i>Corvus corax</i>	Common & widespread.
Starling	<i>Sturnus vulgaris</i>	Common & widespread on Saaremaa Island.
House Sparrow	<i>Passer domesticus</i>	Common on the mainland.
Tree Sparrow	<i>Passer montanus</i>	3 recorded on a roundabout in Tallinn.
Chaffinch	<i>Fringilla coelebs</i>	Common & widespread.
Greenfinch	<i>Carduelis chloris</i>	Common & widespread.
Goldfinch	<i>Carduelis carduelis</i>	Common & widespread.
Common Rosefinch	<i>Carpodacus erythrinus</i>	Recorded at Kohala.
Bullfinch	<i>Pyrrhula pyrrhula</i>	Scattered records.
Hawfinch	<i>Coccothraustes coccothraustes</i>	Several recorded at Matsula.
Reed Bunting	<i>Emberiza schoeniculus</i>	Individuals recorded near Loona Manor.
Yellowhammer	<i>Emberiza citrinella</i>	Common & widespread.
Corn Bunting	<i>Miliaria calandra</i>	1 individual seen near the Barred Warbler bush, along the roadside, returning from Varangu Springs.

Systematic List Number 5 Mammals

Fox	<i>Vulpes vulpes</i>	One seen at Kohala & Loona Manor.
Lynx	<i>Lynx lynx</i>	Territorial scratch markings on a tree at Oandu nature trail.
Beaver	<i>Castor fiber</i>	Dams and much activity seen at Kohala.
Wild Boar	<i>Sus scrofa</i>	Rooting activity seen at several sites.
Roe Deer	<i>Capreolus capreolus</i>	Common at Kohala and on route to Saaremaa.
Elk	<i>Alces alces</i>	Droppings & activity seen at several sites.
Brown Hare	<i>Lepus europaeus</i>	1 seen at Kohala.
Bear	<i>Ursus arctos</i>	Territorial scratch markings on a tree along the Oandu nature trail.
Mole	<i>Talpa europaea</i>	Several specimens recorded at the different sites, but all were dead.

Systematic List Number 6 Reptile & Amphians

Adder	<i>Vipera berus</i>	1 dead specimen at Viru Bog on the road side, and 2 road casualties at Pohja Korvemaa.
Common Frog	<i>Rana temporaria</i>	Scattered records.
Moor Frog	<i>Rana arvalis</i>	1 specimen recorded at Viru Bog.
Common Toad	<i>Bufo bufo</i>	Scattered sightings.
Natterjack Toad	<i>Bufo calamita</i>	1 seen swimming at Varangu Springs.
Common Lizard	<i>Lacerta vivipara</i>	Common sightings along the broad walks.
Smooth Newt	<i>Triturus boscai</i>	1 caught at Kohala.

Systematic List Number 7

Large Speckled Bush-cricket Wart-biter	<i>Isophya pyreneae</i> <i>Decticus verrucivorus</i>
Roesel's Bush-cricket	<i>Metrioptera roeselii</i>
Bog Bush-cricket	<i>Metrioptera brachyptera</i>
Dark Bush-cricket	<i>Pholidoptera griseoaptera</i>
Common Ground-hopper	<i>Tetrix undulata</i>
Woodland Grasshopper	<i>Omocestus rufipes</i>
Mottled Grasshopper	<i>Myrmeleotettix maculatus</i>
Lesser Field Grasshopper	<i>Chorthippus mollis</i>
Field Grasshopper	<i>Chorthippus brunneus</i>
Heath Grasshopper	<i>Chorthippus vagans</i>
Common Green Grasshopper	<i>Omocestus viridulus</i>
Small Gold Grasshopper	<i>Chrysochraon brachypterus</i>
Large Gold Grasshopper	<i>Chrysochraon dispar</i>

Crickets & Grasshoppers

1 female seen at Vidumae in the meadow
Common & widespread across the sites. An female in the unusual brown morph was seen at Vidumae in the meadow.
1 male recorded at the coastal site Latipea.
Common & widespread in marshy & bog areas.
Common & widespread.
1 specimen recorded at Viru Bog.
Common among sandy heath areas.
Common among sandy heath areas at Saaremaa.
Widespread in the meadow sites visited.
Common & widespread.
Recorded on Tagamoisa Peninsula.
Common & widespread in meadow sites.
1 female recorded in marshy meadows at Matsalu.
1 female recorded in the damp ditches near Matsalu.

Systematic List Number 8

Dragonflies and Damselflies

The taxonomy and systematic order follows Askew 1998.

Beautiful Demoiselle	<i>Calopteryx virgo</i>	Widespread
Banded Demoiselle	<i>Calopteryx splendens</i>	Just one seen at Varangu Spring
Emerald Damselfly	<i>Lestes sponsa</i>	Scattered
Scarce Emerald Damselfly	<i>Lestes dryas</i>	Only seen at Endla
White-legged Damselfly	<i>Platycnemis pennipes</i>	Only seen at Matsalu
Northern Damselfly	<i>Coenagrion hastulatum</i> <i>Coenagrion johanssoni</i>	Matsalu Though this species isn't recorded by Askew for Estonia I am sure it was present at Endla which is perfect habitat for the species
Azure Damselfly	<i>Coenagrion puella</i>	Widespread
Variable Damselfly	<i>Coenagrion pulchellum</i>	Kohala
Common Blue Damselfly	<i>Enallagma cyathigerum</i>	Locally abundant
Scarce Blue-tailed Damselfly	<i>Ischnura pumilio</i>	Noted at Vidumae
Blue-tailed Damselfly	<i>Ischnura elegans</i>	Vilsandi Island
Azure Hawker	<i>Aeshna viridis</i>	Scattered
Brown Hawker	<i>Aeshna caerulea</i>	Oandu in Lahemaa
The Emperor	<i>Aeshna grandis</i>	Widespread
Downy Emerald	<i>Anax imperator</i>	A female at Endla
Broad-bodied Chaser	<i>Cordulia aenea</i>	Scattered
Black-lined Skimmer	<i>Libellula depressa</i>	1 at Varangu Spring
Yellow-winged Darter	<i>Orthetrum cancellatum</i>	Widespread
	<i>Sypetrum flaveolum</i>	Widespread and common
	<i>Leucorrhinia albifrons</i>	Scattered
White-faced Darter	<i>Leucorrhinia dubia</i> <i>Leucorrhinia pectoralis</i>	Scattered Oandu in Lahemaa