

# Estonia

## *Orchids, Butterflies & Bogs*

### A Greentours Trip Report

6<sup>th</sup> – 15<sup>th</sup> July 2005

Led by Ian Green

#### **Day 1      July 6<sup>th</sup>      Arrival**

The flight from Gatwick took three hours and on arrival we soon had our baggage and were on our way. It was about one o'clock when we pulled up at the Kohala Manor though in truth it had barely got dark!

#### **Day 2      July 7<sup>th</sup>      Kohala Manor and Letipea**

A leisurely breakfast was enjoyed this morning. By ten o'clock we were ready to explore the very promising looking surroundings. Icterine Warblers and Spotted Flycatcher were in a tree just outside the back door and Chiffchaffs called loudly as we walked down past the stable to the river. Immediately apparent was how lush the growth was everywhere with meadows and verges alike waist deep in grasses and tall herbs. Thistles and umbellifers were frequent and these attracted butterflies. Ringlets were really very abundant and it wasn't long before we saw our first Skippers, This time Large and Essex. Willows and Bird Cherry mixed with the ubiquitous Grey Alder *Alnus incana* as we walked along a track by the slow moving Kunda River. A Kingfisher flew downstream. As the landscape opened out into a series of meadows we heard the unmistakable rasping calls of Corncrake. At least three were calling even at eleven o'clock in the morning. A Lesser Spotted Eagle appeared for a while too. Once the meadows had become a little less rank we started to find some rather beautiful plants led by the shocking purple and yellow *Melampyrum nemorosum*. This stunning plant appeared in small groups then in larger groups and later was dominant in places alongside the track. Hardly less nice was the abundant *Campanula patula* as well as Ragged Robin and Meadow Cranesbill. *Linum catharticum*, *Galium album* and two sedges, *Carex panicea* and *Carex flava* appeared. The butterflies were now really livening up not least the blues. Here it was Amanda's Blue with plentiful males and females. There was also Lesser Marbled Fritillary and Chestnut Heath. Our first River Warbler reeled in the background and Whinchats occupied field edges. Margaret who'd moved a little further on found a stunning male Purple-edged Copper.

Our last area of the morning was by some woodland edge where the mix of plants was quite excellent. Under the trees we found flowering Round-leaved Wintergreen and Toothed Wintergreen was about to bloom. Herb Paris is always a fine thing to see and there was abundant Lily-of-the-Valley, now going over. Chickweed Wintergreen and May Lily were over too but Bird's-nest Orchid was still in good nick. In more open ground the colourful meadow flora continued and here was perhaps the greatest density of butterflies yet with Meadow Brown and Heath Fritillary joining the rest.

Then it was back to the Kohala's delightful grounds for a picnic lunch with table and chairs above the small lake. Spotted and Pied Flycatchers sallied forth from one of the huge oaks that lean this way and that over the lawns and lake. Golden Orioles called from the far end of the pond.

At two we set off for the north coast, a short ten km journey away. However it wasn't long before a flowery meadow drew us to a stop. It was the bellflowers that did it. As well as occasional Peach-leaved, Nettle-leaved and Spreading Bellflowers there was also a magnificent display of Clustered Bellflower. Buzzard and Hooded Crow flew over as we enjoyed campions and catchflies and heaths and blues. Then it was on to the Letipea headland. On one side was the Baltic Sea and on it was quite a raft of Goldeneye as well as terns, gulls, Red-breasted Merganser, Cormorants and Mute Swans. By the shore we soon encountered the lovely Sea Pea. There was plenty else along the shore too with maritime specialities like *Honkenyia peploides*, *Atriplex littoralis* and Sea Rocket joined by more freshwater loving Celery-leaved Buttercup and Gypsywort giving an indication of how low in salt the waters of the Baltic are. Small Blues had a colony right by the parking spot and along the shore numerous Black-tailed Skimmers sunned themselves on the sand. Inland of the minibus was a forest with some great plants. Just metres from the vehicle we found the first of many *Malaxis monophyllos*, the One-leaved Bog Orchid, a scarce plant in Estonia. Some of these were impressive specimens with flower spikes eight inches high and with numerous tiny flowers. *Dactylorhiza maculata* was common as was Twayblade and there was also a goodly amount of Creeping Lady's Tresses in bud. Wintergreens here included the gorgeous One-flowered and unusual *Pyrola chlorantha*.

Then it was time to return to Kohala and after a break, our dinner. Tonight's menu started with Lembit's Surprise, a rather delicious Potato Salad, and was followed by Wrangler's Delight, a fine pork chop with Dijon mustard sauce, and finished by Margaretha's Love, a sweet of pears and custard. All washed down well with local wine or beer!

### **Day 3      July 8<sup>th</sup>      Viru Bog and Pohja Kõrvemaa-Maastiku-Kaitseala**

There was some rumour about rain but a quick glance outside by those who turned up at around eight scotched any such ideas and the rest of the day remained sunny and was increasingly warm – in shot, a perfect summer's day. We headed west out of Kohala taking about an hour to reach the carpark by Viru Bog in Lahemaa National Park.

A trail took us through some beautiful Scots Pine woodland with scattered birches and fir. The understorey was a mix of Bilberry, mosses and lichens with little else to interest us other than the odd sedge or woodrush. However to one particular species of butterfly it was clearly captivating for Cranberry Blues were really quite common. This is such a pretty species with deep blue uppers and

finely marked undersides with a single large orange spot. Chaffinches and Chiffchaffs were common and it wasn't long before we encountered our first Crested Tit a species we seemed to hear if not see for much of the rest of the day. Dragonflies were soon in evidence as we found our first hawkers flying up and down the rides. The brown-hued wings hinted at Brown Hawker but the amount of blue and green colouration suggested otherwise so a quick glance at the book revealed these to be *Aeshna viridis*. A smaller dragonfly perched allowing us great views in the 'scope. Our first Black Darter was a female sat upon a pine but we were hardly out of sight of one or other of these all the rest of the morning.

A boardwalk took us out onto the bog itself. This proved a beautiful place with bags of 'primaeval habitat' points and a beauty that is rare in a 'flat' landscape. Dwarfed Scots Pines (apparently over two hundred years old) dotted the bog, the cover thicker or thinner here and there, and in places there was open water and in between all was covered in a wonderful bogland flora of sphagnum and *Ericaceae*. The large deep peaty pools of water with islands of sedge and Rannoch Rush and surrounded by red mats of sphagnum and sundews and backed by pines and a blue sky had us searching for the best angle to get that ultimate boreal bog atmospheric landscape shot! Ten species of sphagnum were listed on one of the information boards. Two or three red species tended to cover the open muddy ground and it was amongst these that we encountered magnificent displays of sundews with *Drosera rotundifolia* abundant throughout and in areas there were large colonies of the large and beautiful upright leaved *Drosera anglica*. Eventually Ian and Ian found some *Drosera intermedia* though everyone had started back for lunch by then! Ian B found another special carnivorous plant in the form of the diminutive *Utricularia minor*. Dwarf Birch was found amongst the Labrador Tea and we searched the Bog Rosemary for some in flower but sadly it was all just going into fruit. Bog Whortleberry and Small Cranberry were very common with just a bit of Cranberry found too. The lovely Cloudberry was in both fruit and flower. White Beaked Sedge and Deer Grass were two common 'sedges' and there were several true sedges in the form of the brown hanging female flowers of *Carex limosa*, elegant *Carex canescens* and others including *Carex nigra*, *Carex echinata* and *Carex rhyncophysa*.

Birdlife was largely non-existent though a warm sunny midday was never the best time for these! We saw Raven and a Sparrowhawk, the latter being chased by some irate Fieldfares. A group of baby Goldeneye kept us entertained as we watched them from a beautifully constructed tower hide allowing us to see them dive down into the depths of the peaty water before bobbing up to the surface like corks.

Odonata was another matter. There really were lots. Darter types predominated. Black was very common and we saw the brightly coloured white-faced darter type *Leucorrhinia rubicunda*. Much commoner though was *Leucorrhinia albifrons* one of which met a sticky end in a sundew plant. There were also larger dragonflies. We saw the impressive *Aeshna subarctica* patrolling one pool edge, one holding itself stationary in mid air allowing us good binocular views of it. Damselflies were predominantly Common Blue Damselfly though we did see *Lestes sponsa* and a single rather out-of-place looking Beautiful Demoiselle!

Out amongst all the cranberries we found many blues but all out here turned out to be Silver-studded Blues not the Cranberry! A Green Hairstreak and a Heath Fritillary were seen as well as several Moorland Clouded Yellows.

Our picnic was a pleasant affair on the benches back in the carpark after which we moved a mile to some dry forest. Several fine tall Lesser Butterfly Orchids grew here amongst a carpet of Bearberry and Cowberry. Green-flowered Wintergreen was a nice find and along the verge were some exceptionally large Moonwort ferns. Most impressive here though were several trees exhibiting plenty of bear scratches, the deep incisions made by each claw were quite worrying!

A mile or two further on we stopped by a bit of old fallow land near Kemba Whinchats, Lesser Whitethroat and a male Scarlet Rosefinch all perched on the same bare alder twigs. In the field were some nice flowers such as Hoary Cinquefoil, *Galeopsis speciosa* and Maiden Pink, and butterflies included Large and Essex Skippers. We spent the latter part of the afternoon driving south a few miles into Pohja Körvemaa-Maastiku-Kaitseala otherwise known by us as PKMK. We had little time here and other than a nice drive through a forest and a brief look at a lake from a campground all we did was explore a damp area where a little stream crossed the road. There was a good display of Round-leaved Wintergreen by the track and off the road was Marsh Cinquefoil in flower and nice ferns in the shape of Lady Fern and both *Dryopteris carthusiana* and *Dryopteris expansa*. A twenty by twenty metre mat of Stagshorn Clubmoss was well worth seeing too! Then it was back to the Kohala where some elected to relax pre-dinner and others drove out to the butterfly watering hole!

Here there were perhaps forty-five Amanda's Blues mud-puddling and two superb Large Coppers in a stand of Sedge. The latter were possibly eclipsed by ten Lesser Marbled Fritillaries on a clump of *Veronica austriaca teucrium*. Corncrakes called nearby and Redwings flew off and so too, eventually, did some really young chicks which we nearly stood on! Whinchats, Tree Pipits and Scarlet Rosefinches were also seen.

## **Day 4      July 9<sup>th</sup>      Oandu and the Beaver Trail**

The weather had that settled 'its going to be a warm one' look about it as we enjoyed a hearty breakfast at the Kohala. The sun shone brightly on the pink building as we left, this time driving north up to the coast and thence eastwards through the backroads to Lahemaa National Park. It was a pleasant drive through quiet roads and lovely often forested scenery. Some of the little coastal hamlets looked great places to be and certainly some of the homes looked they might cost a penny or two!

We stopped in the carpark at Oandu where to my surprise there was no-one else even on a fine Saturday morning in July. Two dog walkers (illegal along the trail though) arrived and walked off and that was all the people we saw all morning until we arrived back at the carpark warm and hungry at one-thirty where a young brother and sister were playing cards and a small party arrived and set off through the forest. In other words we had the entire place to ourselves all morning!

And what a fabulous area of forest it is. The first part of the trail is through, if you'll pardon the phrase, 'bog-standard' cropped Scots Pine with an 'abbreviated' understorey of lichens, melampyrum and vaccinium. Ian B spotted a superb sub-adult White-tailed Eagle soaring overhead with a Honey Buzzard for a thermal companion. Then the path dropped steeply (11 metres the board told us) as we had reached the edge of the old Ancyclus Sea. Here the ice-sheets had tarried awhile and so the moraine and coastal erosion had formed this 'old coastline'. Now we were in

wonderful 'old-growth' forest with a mix of firs, aspens and alders and with a few pines too. The understorey became damper and mossier and was rich in ferns – *Dryopteris dilatata* and *expansa* were noted and Lady Fern was common. Almost as abundant was Oak Fern and there was even a little Beech Fern. Amongst the many mosses (*Polytrichum commune*, *Hylocomium splendens*, *Dicranum scoparium*, *Dicranum polysetum*, *Pleurozeum schreberi* and *Ptilium crista castrensis*) Ian B spotted the tiny *Listera cordata* or Lesser Twayblade along with plenty of *Goodyera repens*. Best though was the abundant Twinflower *Linnaea borealis* that was everywhere – the stump that was covered in it gained some serious admiration. Birdlife was still very noticeable in these early stages of the walk and we noted Crested Tit at regular intervals and plenty of Chaffinches as well as Siskins, Wood and Greenish Warblers and a Spotted Flycatcher. The forest continued to be stunning all the way round with plenty of dead wood in the shape of large fallen trees rotting away or covered in Twinflower-adorned mosses. Springs seeped from the bases of the old coastlines down which we 'stepped' and streams meandered fernily through the forest floor. Woodpeckers were heard rarely but one stayed put long enough for Ian A to have good views of a Three-toed Woodpecker. Of course seeing mammals was never likely but we had started with a vole running across the road by the carpark and there were numerous signs as we went round. Moose came close to being seen as one was heard by both Ians moving off through the trees and we found the fern it had been munching on and saw the footprints in the needley floor - a substrate that doesn't hold footprints easily for long! Perhaps even closer had been a Pine Martin that had left a fresh scat on the boardwalk and then had peed on it! Lynx and Bear scratch marks were pointed out by well-placed boards but of course they were not recent!

Wintergreens had been on the agenda here last year and though we failed to find all the species seen the previous year we still enjoyed *Pyrola minor*, *Orthilia secunda* and the lovely One-flowered Wintergreen. *Crepis paludosa* added splashes of yellow and by mossy streams we found Alternate-leaved Golden Saxifrage. *Lysimachia thrysifolia*, Bog Arum and *Dactylorhizas fuchsii* and *maculata* were all seen.

Then it was back to the carpark for an excellent picnic lunch before driving the mile or so to the Beaver Trail. Here what may have been *Pyrola norvegicus* had just finished flowering and down in the river we found Water Plantain, *Oenanthe aquatilis*, *Veronica catenata* and Sparganium. The Beaver's of course weren't in sight but there was no mistaking their presence. There were several impressive dams and also lots of cut and partially cut trees, some of startling girth. There were also fresh footprints in muddy riversides and in these we also discerned Otter, Raccoon Dog, Mink and a barefoot child! By the first dam we encountered the beautiful Brilliant Emerald an iridescent green dragonfly and all along the river we saw the shimmering Beautiful Demoiselles enjoying the warm sunny afternoon.

We moved briefly to the coast where the village was enjoying a 'fête' and was so crowded that we decided to try the visitor's centre at Palmse to see what they had. The girl behind the counter had only been working there two days and did well to cope with the demands of the strange English group buying her out of most of her stock so quickly. An ice-cream later and we were on our way back to the Kohala. Pre-dinner saw Ians both finding populations of Greater Spearwort along the river along with Greater Water Parsnip. There was also a colony of about a dozen Large Coppers showing off their golden-orange hues on sedge beds in the horse field and whilst trying to photograph them Ian A flushed a Corncrake!

The evening meal of home-made seljanka soup, roast lamb in a red wine sauce and a lovely chocolate 'sachertorte' with orange sauce, was just superb! Beers and coffees on the terrace overlooking the treed grounds made a fine end to the day.

## **Day 5      July 10<sup>th</sup>      Endla Bog and Varangu Springs**

Today we headed south to sample the best the southern end of Viru Country had to offer us. It took us exactly an hour to reach the nature reserve headquarters at Tooma on the edge of Endla, an impressively large reserve stretching more than ten kilometres to our west. We set off across the dry sandy soil of the horse farm and dropped down into a lush field full of sedges – *ovalis*, *muricata* and *hirta* in the main – and then entered some woodland. *Pyrolas minor* and *rotundifolia* flowered along the track through pine and spruce woodland. This however soon came to an end and we found ourselves looking out over an extensive bog. This one had many stunted pines emerging from the sphagnum but the overall impression was of much more open-ness than at Viru Bog, and it was appreciably larger too. In fact it is the smallest of five large bogs in the reserve but still measures more than a kilometre in diameter. The sphagnum was once again home to considerable quantities of sundews, again *anglica* and *rotundifolia*. Bog Whortleberry and *Chamaedaphne calyculata* added variety to the many ericaceous plants occupying the drier positions. White Beaked Sedge, Rannoch Rush and *Carex limosa* flowered in the wettest spots. There was an abundance of dragonflies and damselflies. Over the next three hours we recorded an incredible variety of species – more than a dozen in all. Most obvious were several large hawkers. Europe's largest, *Aeshna serrata*, whose females look quite like an 'Emperor' were egg laying or patrolling the dark peaty ponds. *Aeshna subarctica* was another large blue species flying here and smaller was Hairy Dragonfly. Brown Hawkets and *Aeshna viridis* made the 'hawker' tally an impressive five. The Brilliant Emerald was again on show and a single Four-spotted Chaser had taken up position on one of the ponds. White-faced Darters (*dubia*) were very common around these pools and again one pool had *Leucorrhinia caudalis*. Yellow-winged Darter was enjoying life by the small river at the far end of the bog. Damselflies were represented by lots of Variable and lots of Irish Damselflies as well as the odd Beautiful Demoiselle and a few Scarce Emerald Damselflies. Back by the picnic lake there were even more – here Downy Emerald flew back and forth as we admired Norfolk and Variable Damselflies and just a single Red-eyed Damselfly perched on a Yellow Water Lily leaf.

In contrast birds and mammals were thin on the ground. Ravens called occasionally and there was a single Goldeneye on one of the pools, otherwise the field was left to Willow and Marsh Tits on the bog fringes. Moose 'beds' were seen but of course no sign of the animals themselves, and signs were also observed of Wolves – twice dung, perched high on a plant each time, was found.

It was however, a very beautiful place and we all enjoyed the atmosphere of the bog and also the stunning views all around from the top of the central watch tower. Lunch was pleasant too back at the visitors centre where maps, leaflets and even a book or two were found.

In the afternoon we drove about thirty kilometres back north to the springs at Varangu. We walked down past a beautiful old wooden barn and thence through some fine old trees to the first area of water. We took the walkway through some damp woodland, noting the orchid *Malaxis monophyllos* and wintergreens *Pyrola rotundifolia* and *Moneses uniflora* as we went. Goldcrests and Crested Tits passed by in tall spruces and pines. The forest understorey was rich in wintergreens with

*rotundifolia* and *Orthilia* being abundant. The leaves and fruiting heads of Lady's Slipper orchid were common and must have been a superb sight six weeks previously. We found the deep clear water – almost blue – of one of the springs. A large hawk and an emerald dragonfly flew back and forth over it. Common Butterwort flowered in sphagnum by its side along with Early Marsh Orchid, Marsh Lousewort, and several fine sedges – *Carexes lepidocarpa*, *rostrata*, *panicea* and in the water itself the aptly named *aqualitis*. Moving back the other way we found a Pied Flycatcher feeding its spotty baby and under some shade the largely finished Birdsnest Orchids. Then it was time to head back north for our last night at the Kohala – today had been warm and sunny and by mid-afternoon was decidedly hot, so a cold beer by the Kohala's shady lake was very appealing.

## **Day 6      July 11<sup>th</sup>      To Matsalu**

Another fine sunny morning ... We made our farewells to Mika, Karin and family (and George the mostly labrador) and the Kohala Manor and drove westwards passing Tallinn as we turned southwestwards towards Matsalu. A Honey Buzzard was seen early on the journey and Kestrel later.

We were within thirty kilometres of Matsalu when we made our first 'wildlife' stop. By the roadside was a little river with an old bridge over it. In the water grew plentiful Greater Spearwort and Greater Water Parsnip, both British rarities. Common Blue Damselfly was joined by Beautiful Demoiselle and Large Red Damselfly whilst Four-spotted Chaser, Black-tailed Skimmer and Downy Emerald represented the larger odonata. Then it was on to park HQ at Matsalu where we enjoyed our picnic under a shadey tree – temperatures were now getting hot! We paid the museum and information centre a visit and came away with the usual goodies. Common Redstart, Fieldfares and Willow Tits were in the grounds. A channel contained a good variety of water plants including Flowering Rush, more Greater Water Parsnip, Water Plantain, Water Crowfoot, Sparganium and various sedges. Wet stones here attracted several skippers and a Purple Emperor and over the bridge another brighter Purple Emperor was found. Barred Warbler sang from the trees as we looked at a bank covered in *Melampyrum nemorosum* and the restharrow *Ononis arvensis*.

Then we moved on to Suitsu and its tower. Purple Emperors were here this year but only one or two though we did find a couple of Marbled Fritillaries too. Brown Hawks were everywhere and both Downy and Brilliant Emeralds were seen. The view from the top of tower was impressive but there was little see. As we drove away another Marsh Harrier appeared and a Honey Buzzard hung over the HQ. The drive from here to Kloostri proved very fine for butterflies (the roadside *Dactylorhizas* and *Epipactis* were good too!). We saw at least seven Purple Emperors including a couple of very 'easy to photograph' specimens. A surprise was a Lesser Purple Emperor, easily photographable – it was in perfect condition. It would appear that it is a rare species in Estonia. Also along the roadside were plenty of Green-veined Whites, these gathering in sizeable groups.

Kloostri Tower may not have provided us with much of a wildlife spectacle but the people were interesting! A man stood by his daughters as they swam in the river, seemingly ready to jump in after them at the first sign of trouble. A group of youngsters travelled slowly upstream like a little pack of otters and over the other side the unmistakable bearded head of a researcher/professor was followed by two attentive female students intent on learning the art of measuring whatever it was he was measuring with his muddy stick and electronic device! Back to the wildlife – there was a nice

Moose trail but no sign of the animal itself! Marsh Harrier again and Linnets, a Yellow Wagtail calling, and along the edge of the alder wood what must have been *Iris sibirica* in seed and what certainly was *Veronica longifolia* in good flower. Then it was off to the Altmoisa on the northern side of the bay.

**Day 7            July 12<sup>th</sup>            Puhtu Mets, Laelatu Puisniit and Saaremaa**

At breakfast Ian B told us of the eight species of orchid that he'd found in the field across the road from the hotel – a mix including Marsh Helleborine and Musk Orchid. Back in a less attractive looking field by the hotel we saw Cornflower (Estonia's National Flower), Larkspur and Corncockle.

We drove south – it took forty five minutes to drive from one end of Matsalu to the other – it really is quite a large nature reserve! In Virtsu we met up with Peeter Virsik, the warden at several reserves centred on the former island of Puhtu. Peeter is a lively engaging character exceptionally keen to show off all his local wildlife and as the flora is so rich it was all we could do to catch the ferry one hour after the one we'd intended (even then we had to wait for the next one as the Saaremaa bound traffic was so busy!). Back to Puhtu. Peeter told us a little of the history of this beautiful place, how the island had risen from the Baltic some two thousand years ago and how two hundred years ago a Germanic family had come here to live and had made an English/Dutch style park of the place. Today the island has joined the mainland, a consequence of the rapid glacial-rebound in the area with the land rising 3mm a year. And the park has gone wild so now it is difficult to tell what is wild and what was planted as far as the big trees go. And big trees there were – some of the oaks and elms were magnificent and one or two of the pines were impressive too. One of the oaks was at least seven hundred years old. We started outside the woodland in fine sedge and herb rich meadows between reedbed and wood. It was immediately apparent that richness in this area had much to do with the juxtaposition of habitats as woodland and seashore species mixed freely in grassy meadows! Peeter showed us the seeding heads of the very rare *Dactylorhiza ruthei* a species known with certainty only from this spot in Estonia and a couple of recently re-discovered populations in Germany. *Inula salicina* was in good flower with Marsh Pea and Bittern boomed in the background. Field and Crow Garlic were in flower and inside the woodland we found Ramsons, a species very rare in Estonia, but common here. Other forest species of note were Mezereon, Woodruff, Martagon Lily (naturalised) and sedges *Carex digitata* and *Carex vaginata*. Pied Flycatchers, Nuthatches, Treecreepers and Chiffchaffs were all seen and in the mammal line we spotted a little Yellow-necked Wood Mouse and Peeter showed us the midden of a Raccoon Dog, one that had been used for twenty-five years, and was indeed a big pile of dung! White Admiral sat on the track on the way back.

Then it was to Laelatu, a stunning wooded meadow just a few kilometres away. This place is celebrated amongst conservationists in Estonia as having the highest species diversity per square metre in the country (and certainly the region and maybe northern Europe?). 75 to be exact. It was a beautiful sight. Oak, Ash, Maple and in particular Hazel were scattered about a meadow that could hardly be described as grassy so many were the sedges and flowers. Orchids there were though they seemed few but in one hour we did find Fragrant Orchid, Red Helleborine, Burnt-tip Orchid, Common Spotted Orchid, *Dactylorhiza incarnata* and *Epipactis helleborine* as well as the ubiquitous Twayblade. Lady's Slipper had clearly put on a good show a few weeks previously!



Saw-wort, Yellow Rattle, Spotted Catsear, Rough Hawkbit, Field Scabious, both Burnet and Greater Burnet Saxifrage, Round-leaved Wintergreen, rare *Viola elatior* and *Viola pumila* were amongst many flowers seen. Sedges were also varied with *Carexes hostiana*, *flacca*, *pulicaris*, *davalliana*, *tomentosa*, *montana* and *pallescens*. Sadly we had to leave all this finery and be off to the ferry though Peeter clearly wanted us to stay!

The ferry journey passed uneventfully (great ice-creams!) and then we were off across Saaremaa's rural landscapes. A brief roadside stop short of Kuressaare proved very good for butterflies with singletons each of Purple Emperor, Map Butterfly and White Admiral joining several Dark Green Fritillaries and Black-veined Whites. Green-veined Whites sat sipping salts in some numbers.

Nearer to Loona Mois we stopped by a roadside ditch. Black-tailed Skimmers were abundant as they had been all day. Downy Emeralds, Common Blue Damselflies and Beautiful Damselflies patrolled the water course. Peering over the bridge we saw a commotion and the watched a Grass Snake swim elegantly off up the water course! Common Eyebright and Yellow Rattle flowered with Marsh Helleborines, Marsh Cinquefoil and the usual rich ditch flora!

Then it was to the Loona Mois and a relaxing evening and dinner in this excellent guesthouse.

## **Day 8      July 13<sup>th</sup>      Vidumae and the Tagamõisa Peninsula**

Another sunny and very warm morning! We were off about ten past nine and the drive through the backwoods to the Vidumae took just fifteen minutes or so. We parked up by the visitor's centre there and walked hastily through the lovely meadow and into the woodland trying not to look at anything until inside the wood! Inside the shade of the wood it was cool but mosquito-y so we didn't hang around at any spot for long, pausing briefly to enjoy such varied delights as a large-leaved *Viola* in fruit and *Ranunculus cassubicus* in the same state, both *Lathyrus niger* and *Vicia sylvatica* in lovely flower, and *Pyrola media* just going over. We heard Nutcrackers close by, not for the last time during the day, but couldn't see them. The woodland opened out into a fen area though it was so dry it took us some time to find water! This held a very small population of 'marsh orchids'. There were just a few *Dactylorhiza curvifolia* (*russowi*) and at least two *Dactylorhiza ruthei*, though local orchid experts say these are hybrids between the latter and former species. Though they looked perfect for *ruthei* the later flowering time suggests that perhaps the hybrid theory is correct? *Carex buxbaumi* was new and abundant here with *Carexes hostiana* and *panicea*. Woodland Browns flew around the edge of the clearing, one posing long enough for John to get a photo. Then it was with all haste back to the meadow. Florally it was a fine place though we concentrated on the butterflies. There were several Marbled Fritillaries and also at least three Silver-washed Fritillaries. A superb Scarce Copper was our first of the trip whilst Chestnut Heaths were the first we had seen in several days. Ian B found a Purple Emperor by the excellent visitor's centre and this turned out to be a bit of a theme for the next half an hour as we drove slowly along the forest track pausing... Purple Emperor ... Lesser Purple Emperor ... Purple Emperor ... two Lessers and a Purple ... White Admiral – and there were plenty of fritillaries too.

Our next stop was by a stunning fen surrounded by trees. Not only did it look like it ought to have a Moose sitting in it (there were plenty of tracks) it had a very fine selection of plants. Immediately by the roadside there were Marsh Helleborines and Fly Orchids whilst by the wetter areas were

*Dactylorhizas incarnata* and *ochroleuca*. The latter appears to be new to Estonia! Main interest here though centred on the Fen Orchids which were in fine flower – there were perhaps fifty in total though undoubtedly more would be found if we searched the whole fen. A single Dark Red Helleborine poked out from below a sphagnum-bound pine. A nice surprise here was the abundance of bladderworts. These insectivorous plants are often shy flowerers but this year they were at it with a vengeance and though we saw few *Utricularia vulgaris* – the large rich yellow one – there was an abundance of the smaller paler *Utricularia ochroleuca*. Nutcrackers again called from out of sight!

For lunch we moved up on to the west side of the Tagamõisa Peninsula. A roadside with abundant Dark Red Helleborines provided the excuse to stop between meadow and wood and we tucked in to the Loona's fine picnic. In the woods we found Birdsnest Orchids going over.

Just up the road we stopped by what one would call a dune slack if it were in dunes but here it was between alvar or flat dry limestone pavement. Nevertheless its characteristics were like a slack, particularly the seasonal inundation bit. There was a wealth of unusual plants here with some of the best being *Scutellaria hastifolia*, *Teucrium scordium*, *Veronicas longifolia* (pink and blue forms) and *scutellata*, *Ranunculus flammula* and *Inula salicina*. Sedges, rushes and grasses as usual provided a plethora of unusual species. Fritillaries were very common here with the most being Dark Green though a single Heath appeared too and by the bus Mazarine Blue and Chestnut Heath. Then it was on to a little stream where the hoped for Umbellate Wintergreen *Chimaphila umbellata* was indeed there (along with *Pyrolas rotundifolia* and *media* and *Orthilia secunda* too) but was only in bud. In the stream was a huge Brown Trout, it seemed almost too large to stay in the water but managed eventually to disappear off downstream.

Most of the group went for a potter along the beach or a paddle whilst the rest of us looked at the dune and strand-line flora. In the dunes *Pulsatilla pratensis* was in abundant fruit and must have been a tremendous sight in April. A pretty good sight now was the mats of pink Thyme, blue Harebells and the lovely glaucous tints of Sea Holly. Assorted Chenopods and *Caryophyllaceae* preferred the strand-line. Then it was back towards base stopping by a lake where a magnificent display of Marsh Helleborine was enjoyed. Also here were Pyramidal Orchids, Red Rattle and some very clear of footprints of Moose and what may have been Lynx in the lakeside mud.

Ian B and I popped out for some evening recce-ing and found a large colony of Musk Orchids as well as yet more sedges and seaside specialities.

## **Day 9      July 14<sup>th</sup>      Vilsandi Island and the Tagamõisa Peninsula**

Well, it had to happen, there was a cloud or two in the sky this morning! By breakfast these had hardly dented the blue sky and temperatures were already very warm. In short, a fine day to take a boat trip out on the Baltic!

At Papisaaire we parked after enduring the Russian's cobbled road that leads out to their 'last bastion' against the West where they picked up any wannabee defectors who thought a boat trip across the Baltic might be preferable to Stalinist Russia. We had an altogether more relaxing ride across the flat waters especially when our boatman had to slow down because of the very shallow water lying between the newly formed islets that had risen out of the sea between Vilsandi and the

mainland in the past forty years. The shallowest bit rather bizarrely was where a truck plied a regular crossing on its taller than usual wheels – it was but a metre deep here.

In these shallows was an abundance of aquatic plantlife mostly *Potamogetons pectinatus* and *pusillus* and algae as well. Birdlife was reasonably abundant too with Mute Swans, Black-headed Gulls, Common and Arctic Terns and a small colony of Barnacle Geese. Once we had landed on the island it was a case of choose your preferred option whether it be taking a walk into the island's centre or along its coast or just pottering in the immediate vicinity of the landing which several of us did for the next three hours. Grey Herons and later Common Cranes were seen offshore and a pair of White-tailed Eagles soared overhead before dropping to the sandbank that was home to some of the taller grey leggy birds in the area. This of course put them all into a panic and the various large birds in the air at one time made for an impressive sight. Not long after a Caspian Tern flew inland and Little Terns came past. A little inland Red-backed Shrikes, Yellowhammers, Skylarks and a little group of Greenish Warblers were encountered. Butterflies were not prolific but did include Large and Essex Skippers, Chestnut Heaths in abundance, Pearl-bordered and Lesser Marbled Fritillaries and Ian B saw Large Blue. The plantlife started with a great show of the regional endemic *Dactylorhiza baltica* (or *longifolia* as it is now known) and continued with Early Marsh Orchids, Lesser Butterfly Orchids and an assortment of shore-based species such as *Centauriums pulchellum* and *littorale*, *Odontities littorale*, *Inula salicina* and several chenopods. *Blasmus rufus* and *Schoenus nigricans* were two of many *Cyperaceae* which also included the sedges *Carex distans*, *extensa* and *serotina*. The 'toad rush' *Juncus ranarius* and two sea spurreys were found and in shallow water were stoneworts, *Myriophyllum spicatum*, Horned Pondweed and *Ruppia cirrhosa*. It was a veritable soup out there.

Then it was back to the mainland where we headed back to the Loona Mois and took our picnic there before meeting up with Tina the orchid expert and Merica, a translator, who took us off on a grand tour of the orchid sites of Tagamõisa for the afternoon. It was a hectic afternoon with little driving time – we covered perhaps thirty kilometres in total – but with about six sites visited we really had a lot of time in the field. The first spot was along a very grassy ride into thick woodland. The flora was exceptionally diverse with many lovely flowers including Herb Paris, Dark Red Helleborine and the water crowfoot *Ranunculus aquatilis*. Tracks of boar were everywhere and they'd been having a fine time digging up orchids, something they are able to do with trowel like precision! Moose tracks were in the boggy area by the lake and we found Moose dung. Right by this was the main object of our visit – two *Dactylorhiza curvifolia* (*russowii*) and nearby Musk Orchid too. The damselfly *Ischnura elegans* was common along with Four-spotted Chaser. Next up was Tina's farm which was a few hundred metres away. She took us on a whirlwind tour of some mixed fen and meadows that held thousands of orchids – Fragrant Orchids, Burnt-tip Orchids and the marsh orchid *Dactylorhiza cruenta* amongst others. Tina had a restored windmill which she showed us – a pretty picture amongst a dry meadow of Kidney Vetch. Then it was up north to the coast where we stopped by a steeply shelving pebbly beach for a spot of relaxation. Or examining aquatic plants. These included *Ruppias*, *Zanzechellias* and *Potamogetons filiformis* and *pusillus*. A little further on a pool behind the beach held a number of orchids including several Fen Orchids. On the beach we looked closely at a plant of *Senecio viscosus* only for a Grass Snake to erupt from it and make its escape between my legs!

The next coastal stop was in a very rich area with *Dactylorhiza longifolia* (*baltica*) the main orchid reason for stopping. However it was the wealth of other unusual plants that kept us there another

hour! Marsh Pea was common amid a sea of rushes and sedges that included *Bulboschoenus maritimus* and *Juncus balticus*. There was plenty along the beach too with some nice plants of Sea Kale and Tall Rocket.

The last stop was past a 'being constructed' holiday village and into the woods. Tina took us on a marvellous walk through mossy woods and grassy meadows passing Nodding Wintergreen, Red and Dark Red Helleborines, both in perfect flower, and to an area of old sand dunes covered in old growth forest. In damper areas amongst the spruce we saw Lesser Twayblades in abundant flower and a few Coralroot Orchids in seed as well as an unusual Flea Sedge like sedge and Broad Buckler Fern which is uncommon in Estonia. In all Tina had shown us twenty three species of orchid in the afternoon and we'd seen a great deal else in the process. Back at the Loona we sat outside with a beer before dinner and a Common Crane flew directly over our heads!

## **Day 10      July 15<sup>th</sup>                      To Tallinn**

An earlier than usual start leaving at eight saw us heading back east to the mainland and thence to Tallinn. After all the blue sky it was quite a cloudy and humid morning but any rain never caught us up! We drove the backwoods way through Vidumae hoping to catch sight of a Moose or a Boar but nothing so the first stop was by the main road. Here we admired that fine lousewort *Pedicularis sceptrum-carolinum*, or Moor King. Now it was in bud and so the cream and purple flowers were not yet at their best and the plants were still less than half a metre too – but impressive nonetheless. *Carex buxbaumii* and *Carex davalliana* indicated we were in fine fen habitat. And so too did *Dactylorhiza curvifolia (russowi)* which was more abundant here than at any place we'd seen it. We continued on to the ferry making it with plenty of time to spare. The ferry crossing was a picture of efficiency and the lovely maxi icecreams were enjoyed by most of us! We drove eastwards out of Virtsu stopping almost immediately at a very orchid rich roadside marsh. Marsh Helleborines were here in their thousands and so too were Fragrant Orchids. Fly, Military and Musk Orchids were there too and we found our only German Asphodels of the trip and Carline Thistle.

The journey continued with a White Stork flying alongside us for a while – we drew in our speed and levelled with it at a gliding 50km an hour – a spectacular sight from just metres out the window. The journey then became a little sleepy until the shout of Moose suddenly woke everyone up! A mother Moose and her two babies (these were several months old) were moving off across a marsh full of tall vegetation – the youngsters were only visible by their ears most of the time though all three came into sight at one point. Even at a distance and near a noisy main road the female was still nervous of us once we were out of the vehicle and she kept a constant watch on us as she shepherded the youngster gently into the wooded area beyond.

Then it was to Tallinn and a brief visit to the Apollo Bookshop in town for flower books before a hassle free check-in and flight back to Gatwick.

## Summary of Locations

Day 1	July 6 <sup>th</sup>	Tallinn to Kohala
Day 2	July 7 <sup>th</sup>	Kohala and Letipea
Day 3	July 8 <sup>th</sup>	Lahemaa – Viru Bog and Pohja Kõrvemaa-Maastiku-Kaitseala
Day 4	July 9 <sup>th</sup>	Lahemaa – Oandu, Beaver Trail and Palmse
Day 5	July 10 <sup>th</sup>	Endla Bog and Varangu Springs
Day 6	July 11 <sup>th</sup>	Kohala to Matsalu – Suitsu & Klootsi watchtowers & Altmoisa
Day 7	July 12 <sup>th</sup>	Puhtu Mets, Laelatu Puisniit and Saaremaa
Day 8	July 13 <sup>th</sup>	Saaremaa – Vidumae & the western Tagamõisa Peninsula
Day 9	July 14 <sup>th</sup>	Saaremaa - Vilsandi Island & the northern and eastern Tagamõisa Peninsula
Day 10	July 15 <sup>th</sup>	Vidumae/Virtsu & Riispere – then to Tallinn

## 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 2005 are in square brackets [eg.].

### ***Pteridophyta***

#### *Lycopodiaceae*

<i>Lycopodium annotinum</i>	Interrupted Clubmoss	Widespread in Lahemaa
<i>Lycopodium clavatum</i>	Stagshorn Clubmoss	Viru Bog. 2004 Scattered. 2005 Viru
[ <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. 2005 Kohala only
<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. 2005 ditto

#### *Ophioglossaceae*

<i>Ophioglossum vulgatum</i>	Adder's-Tongue Fern	2004. Tagamõisa Peninsula on Saaremaa. 2005 ditto and also Matsalu
<i>Botrychium lunaria</i>	Moonwort	2004. Scattered – east and west. 2005 ditto

#### *Hypolepidaceae*

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

<i>Thelypteris palustris</i>	Marsh Fern	2004. Varangu. 2005 and Matsalu
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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. 2005 widespread

#### *Aspidiaceae*

<i>Dryopteris filix-mas</i>	Male Fern	Widespread.
<i>Dryopteris expansa</i>	Northern Buckler Fern	Scattered records
<i>Dryopteris cristata</i>	Crested Buckler Fern	2004 several fine specimens in Pohja Kõrvemaa-Maastiku-Kaitseala. 2005 onw clump at Endla
<i>Dryopteris carthusiana</i>		2004. Pohja Kõrvemaa-Maastiku-Kaitseala. 2005 ditto
<i>Dryopteris dilatata</i>	Broad Buckler Fern	2005 Tagamõisa Peninsula

<i>Polypodiaceae</i>		
<i>Polypodium vulgare</i>	Common Polypody	Scattered records.
<b>Spermatophyta</b>		
<b>Gymnospermae</b>		
<b>Pinaceae</b>		
<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
<b>Cupressaceae</b>		
<i>Juniperus communis</i>	Juniper	Widespread and very common.
<b>Taxacaceae</b>		
<i>[Taxus baccata</i>	Yew	2004. Tagamõisa Peninsula]
<b>Salicaceae</b>		
<i>Salix pentandra</i>	Bay Willow	Kohala
<i>Salix fragilis</i>	Crack Willow	Kohala
<i>[Salix triandra</i>	Almond Willow	]
<i>[Salix myrsinifolia</i>	Dark-leaved Willow	]
<i>Salix caprea</i>	Goat Willow	Widespread
<i>Salix cinerea</i>	Grey Willow	Scattered
<i>[Salix aurita</i>	Eared Willow	]
<i>[Salix lapponum</i>	Downy Willow	]
<i>Salix viminalis</i>	Osier	Beaver Trail
<i>Salix repens</i>	Creeping Willow	Scattered in boggy areas
<i>Salix rosmarinifolia</i>		Endla
<i>Salix alba</i>	White Willow	south of Tallinn
<i>Populus tremula</i>	Aspen	Widespread and often co-dominant
<b>Myricaceae</b>		
<i>Myrica gale</i>	Bog Myrtle	2004. Tagamõisa Peninsula. 2005 Saaremaa bogs generally
<b>Betulaceae</b>		
<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. 2005 only Varangu
<i>Alnus incana</i>	Grey Alder	Widespread.
<b>Corylaceae</b>		
<i>Corylus avellana</i>	Hazel	Widespread.
<b>Fagaceae</b>		
<i>Quercus robur</i>	Pedunculate Oak	Widespread.
<b>Ulmaceae</b>		
<i>Ulmus glabra</i>	Wych Elm	Scattered records.
<b>Cannabaceae</b>		
<i>Humulus lupulus</i>	Hop	Scattered records.

### *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 lapathifolia</i>	Pale Persicaria	Kohala
<i>Polygonum persicaria</i>	Redshank	Scattered
<i>Fallopia convolvulus</i>	Black Bindweed	2004. Tagamõisa Peninsula. 2005 Kohala
<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	Scattered
<i>Rumex obtusifolius</i>	Broad-leaved Dock	Widespread.

### *Chenopodiaceae*

[ <i>Chenopodium album</i> ]	Fat Hen	Scattered records.]
<i>Chenopodium chenopodioides</i>	Saltmarsh Goosefoot	2005 Vilsandi
<i>Chenopodium rubrum</i>	Red Goosefoot	2005 Letipea
[ <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. 2005 all coasts
<i>Atriplex prostrata</i>	Spear-leaved Orache	Tagamõisa Peninsula. 2005 Letipea
<i>Salicornia europaea</i>	Glasswort	2004. Tagamõisa Peninsula. 2005 also Matsalu
<i>Salsola kali</i>	Prickly Saltwort	2004. Tagamõisa Peninsula. 2005 ditto
<i>Suaeda maritima</i>	Annual Seablite	2005 Matsalu

### *Caryophyllaceae*

<i>Moehringia trinervium</i>	Three-veined Sandwort	2004. Varangu. 2005 Kohala
<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 holostea</i>	Greater Stitchwort	Scattered in wooded west
<i>Stellaria palustre</i>	Marsh Stitchwort	2004. Varangu. 2005 scattered
<i>Stellaria nemorum</i>	Wood Stitchwort	2004. Oandu. 2005 scattered
<i>Holosteum umbellatum</i>	Umbellate Chickweed	2005 Puutu?
<i>Cerastium fontanum</i>	Common Mouse-ear	2004. Common on Saaremaa
<i>Cerastium semidecandrum</i>	Little Mouse-ear	2005 Letipea
<i>Myosoton aquaticum</i>	Water Chickweed	2004. Viru Bog. 2005 widespread
<i>Sagina nodosa</i>	Knotted Pearlwort	2004. Tagamõisa Peninsula – common in dry areas
[ <i>Hernaria glabra</i> ]	Smooth Rupturewort	Tagamõisa Peninsula]
<i>Spergularia arvensis</i>	Corn Spurrey	2005 Endla reception
<i>Spergularia marina</i>	Lesser Sea Spurrey	Vilsandi Island. 2004. Tagamõisa Peninsula
<i>Lychnis flos-cuculi</i>	Ragged Robin	Noted in Lahemaa. 2005 widespread
<i>Lychnis viscaria</i>	Sticky Catchfly	Scattered records. 2005 only along Beaver Trail
<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>Agrostemma gitahgo</i>	Corncockle	2005 weedy areas by Altmoisa
<i>Dianthus deltoides</i>	Maiden Pink	Widespread but local.



<i>Aristolochiaceae</i>		
<i>Asarum europaeum</i>	Asarabacca	2005 Endla reception area
<i>Nymphaeaceae</i>		
<i>Nuphar lutea</i>	Yellow Water-Lily	Locally in ponds and lakes.
<i>Ranunculaceae</i>		
[ <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>Consolida regalis</i>	Forking Larkspur	2005 in weedy areas by Altmoisa
<i>Hepatica nobilis</i>	Hepatica	Common in leaf in woods.
<i>Pulsatilla pratensis</i>		2005 in leaf Tagamõisa Peninsula
<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>Trollius europaeus</i>	Globeflower	2005 in leaf Puhtu Mets
<i>Caltha palustris</i>	Marsh Marigold	A few records.
<i>Ranunculus acris</i>	Meadow Buttercup	Widespread.
<i>Ranunculus auricomus</i>	Goldilocks	Scattered records. 2005 Kohala
<i>Ranunculus repens</i>	Creeping Buttercup	Common.
<i>Ranunculus flammula</i>	Lesser Spearwort	2004. Tagamõisa Peninsula and Vilsandi. 2005 widespread
<i>Ranunculus lingua</i>	Greater Spearwort	2004. Noted near Risti between Tallinn and Virtsu and also at Matsalu. 2005 ditto plus Kohala
[ <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. 2005 Letipea
<i>Ranunculus cassubicus</i>		2005 in leaf Vidumae
<i>Ranunculus polyanthemus</i>	Multiflowered Buttercup	Scattered records. 2004. Oandu. 2005 in leaf
<i>Ranunculus nemorosus</i>		2005 in leaf Puhtu Mets
[ <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. 2005 Matsalu
<i>Ranunculus aquatilis</i>	Water Crowfoot	Common 'at sea' between Vilsandi and land
<i>Aquilegia vulgaris</i>	Common Columbine	Loona Mois on Saaremaa. 2005 scattered
<i>Thalictrum flavum</i>	Common Meadow-rue	2004. Scattered
<i>Thalictrum simplex</i>	Small Meadow-rue	2004. Tagamõisa Peninsula. 2004 ditto & Varangu
<i>Papaveraceae</i>		
<i>Chelidonium majus</i>	Greater Celandine	Scattered records.
<i>Papaver rhoeas</i>	Corn Poppy	2004. Between Tallinn and Virtsu. 2005 scattered
<i>Papaver dubium</i>	Long-headed Poppy	2004. Vidumae. 2005 scattered
<i>Berberidaceae</i>		
<i>Berberis vulgaris</i>	Barberry	2005 Tagamõisa Peninsula
<i>Fumariaceae</i>		
<i>Fumaria officinalis</i>	Common Fumitory	Scattered records.

### *Cruciferae*

<i>Crambe maritima</i>	Sea Kale	2004. Tagamõisa Peninsula. 2005 Matsalu
<i>Sinapis arvensis</i>	Charlock	2004. Varangu
<i>Cardamine bulbifera</i>	Coralroot Bittercress	In seed in woods. 2005 Vidumae
<i>Cardamine amara</i>	Large Bittercress	2005 river by the Beaver Trail
<i>Bunias orientalis</i>	Warty Cabbage	2005 widespread
<i>Lunaria rediviva</i>	Perennial Honesty	Very local in Lahemaa. 2005 Varangu
<i>Arabis hirsuta</i>	Hairy Rockcress	Common. 2005 Altmoisa
<i>Neslia paniculata</i>	Ball Mustard	Widespread.
<i>Capsella bursa-pastoris</i>	Shepherd's Purse	Common.
<i>Lepidium latifolium</i>	Dittander	Scattered records. 2005 Vilsandi
<i>Cakile maritima maritima</i>	Sea Rocket	Local on coasts. 2004 Tagamõisa Peninsula
<i>Cakile maritima baltica</i>		2004. Tagamõisa Peninsula
<i>Sisymbrium altissimum</i>		2005 Vilsandi
<i>Barbarea stricta</i>		2005 Varangu
[ <i>Barbarea vulgaris</i>	Common Wintercress	2004. Kohala]
<i>Rorippa palustris</i>		2005 scattered
<i>Erysimum cheiranthoides</i>	Treacle-Mustard	2004. Kohala. 2005 widespread
<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	Widespread
<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]

### *Saxifragaceae*

<i>Chrysosplenium alternifolium</i>	Alternate-leaved Golden Saxifrage	2005 Oandu
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### *Parnassiaceae*

<i>Parnassia palustris</i>	Grass of Parnassus	Varangu. 2004 Varangu and various places on Saaremaa
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### *Grossulariaceae*

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

### *Rosaceae*

<i>Filipendula vulgaris</i>	Dropwort	Scattered records.
<i>Filipendula ulmaria</i>	Meadow Sweet	Widespread and abundant.
<i>Sorbaria sorbifolia</i>		2004. Naturalised commonly
<i>Rubus chamaemorus</i>	Cloudberry	Common in bogs.

<i>Rubus saxatilis</i>	Stone Branble	2004. Scattered
<i>Rubus idaeus</i>	Raspberry	2004. Scattered
[ <i>Rubus nessensis</i>		2004. Locally common in east]
[ <i>Rosa rugosa</i>		In flower near the coast at Lahemaa.]
<i>Agrimonia eupatoria</i>	Agrimony	Widespread and common.
[ <i>Agrimonia procera</i>	Fragrant Agrimony	Scattered records.]
<i>Geum rivale</i>	Water Avens	Scattered records.
<i>Geum urbanum</i>	Herb Bennet	Scattered records.
[ <i>Geum macrophyllum</i>		2004. Locally common in woods]
<i>Potentilla palustris</i>	Marsh Cinquefoil	Wet areas throughout.
<i>Potentilla anserina</i>	Silverweed	Widespread and very common.
<i>Potentilla argentea</i>	Hoary Cinquefoil	Widespread.
<i>Potentilla argentea demissa</i>		2005 Vilsandi
[ <i>Potentilla norvegica</i>	Norwegian Cinquefoil	Scattered records.]
<i>Potentilla erecta</i>	Tormentil	Common.
<i>Potentilla reptans</i>	Creeping Cinquefoil	Widespread and common.
[ <i>Potentilla impolita</i>		Scattered records.]
<i>Fragaria vesca</i>	Wild Strawberry	Common.
[ <i>Fragaria viridis</i>		Scattered records.]
<i>Fragaria moschata</i>	Hautbois Strawberry	Widespread.
<i>Alchemilla</i> spp.		Noted in various places.
[ <i>Malus sylvestris</i>	Wild Apple	Common.]
<i>Sorbus aucuparia</i>	Rowan	Scattered records.
<i>Sorbus intermedia</i>	Swedish Whitebeam	Scattered records.
[ <i>Sorbus x hybrida</i>		2004. Vidumae]
<i>Cotoneaster scandinavicus</i>		Local on Saaremaa.
<i>Crataegus monogyna</i>	Hawthorn	Uncommon.
[ <i>Prunus avium</i>	Wild Cherry	Scattered records.]
<i>Prunus padus</i>	Bird Cherry	Scattered records.
<b>Fabaceae</b>		
<i>Astragalus glycyphyllos</i>	Wild Liquorice	Puhtu Mets
[ <i>Lupinus polyphyllus</i>		Roadsides.]
[ <i>Oxytropis pilosa</i>		Saaremaa.]
<i>Vicia cracca</i>	Tufted Vetch	Widespread.
[ <i>Vicia tenuifolia</i>	Fine-leaved Vetch	Scattered records.]
<i>Vicia villosa</i>	Fodder Vetch	2005 grown as a crop near Kohala
[ <i>Vicia sativa</i>	Common Vetch	Scattered records.]
<i>Vicia sylvatica</i>	Wood Vetch	Vidumae
<i>Vicia hirsuta</i>	Hairy Tare	2004. Near Vidumae
<i>Vicia tetrasperma</i>	Smooth Tare	2005 Kohala
[ <i>Vicia cassubica</i>	Danzig Vetch	Scattered records.]
<i>Lathyrus pratensis</i>	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. 2005 also Matsalu and Puhtu
<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 Körvemaa-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.
<b>Oxalidaceae</b>		
<i>Oxalis acetosella</i>	Wood Sorrel	Common in woods.
<b>Geraniaceae</b>		
<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 'maritimum' seen in north of Tagamõisa Peninsula
<i>Geranium palustre</i>	Marsh Cranesbill	2004. Varangu and Kohala. 2005 scattered throughout
<b>Linaceae</b>		
<i>Linum catharticum</i>	Purging Flax	Scattered records.
<b>Euphorbiaceae</b>		
<i>Mercurialis perennis</i>	Dog's Mercury	Lahemaa. 2005 Varangu
<i>Euphorbia helioscopia</i>	Sun Spurge	Kohala
[ <i>Euphorbia peplus</i>	Petty Spurge	2004. Kohala]
<i>Euphorbia palustris</i>	Marsh Spurge	2004. Kohala. 2005 Vidumae
[ <i>Euphorbia esula</i>	Leafy Spurge	2004. Kohala]
<b>Polygalaceae</b>		
<i>Polygala amarella</i>	Dwarf Milkwort	2004. Varangu. 2005 Laelatu
<i>Polygala vulgaris</i>	Milkwort	Scattered
<i>Polygala comosa</i>	Tufted Milkwort	2005 ?Kohala
<b>Aceraceae</b>		
<i>Acer platanoides</i>	Norway Maple	Widespread.
<b>Balsaminaceae</b>		
<i>Impatiens noli-tangere</i>	Touch-me-not Balsam	Locally common.
<i>Impatiens parviflora</i>	Small Balsam	Locally common.
<b>Celastraceae</b>		
[ <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. 2005 Puhtu
<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	Widespread
<i>Hypericum hirsutum</i>		2005 Laelatu
<i>Violaceae</i>		
<i>Viola pumila</i>	Meadow Violet	Tagamõisa Peninsula
<i>Viola elatior</i>		2005 Laelatu – in leaf
<i>Viola epipsila</i>		2004. Scattered
<i>Viola uliginosa</i>		Scattered throughout n leaf
[ <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>Haloragaceae</i>		
<i>Myriophyllum spicatum</i>		2005 in the waters around Vilsandi
<i>Hippuraceae</i>		
<i>Hippuris vulgaris</i>		2005 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>Apiaceae</i>		
<i>Hydrocotyle vulgaris</i>	Marsh Pennywort	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	Tagamõisa Peninsula
<i>Anthriscus sylvestris</i>	Cow Parsley	Scattered records.
<i>Pimpinella major</i>	Great Burnet Saxifrage	Tagamõisa Peninsula

<i>Pimpinella saxifraga</i>	Burnet Saxifrage	2004. Pohja Kõrvemaa-Maastiku-Kaitseala. 2005 Laelatu
<i>Aegopodium podagraria</i>	Ground Elder	Widespread and common.
<i>Sium latifolium</i>	Greater Water Parsnip	2004. Near Risti between Tallinn and Virtsu. 2005 Kohala, Varangu and Matsalu
<i>Berula erecta</i>	Lesser Water Parsnip	2004. South of Tallinn (Ian – after group left). 2005 Tagamõisa Peninsula
<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	Scattered
<i>Cnidium dubium</i>	Cnidium	2004. Tagamõisa Peninsula. 2005 Altmõisa
<i>Angelica sylvestris</i>	Angelica	Common.
<i>Angelica archangelica</i>	Garden Angelica	Recorded in Matsalu area
<i>Peucedanum palustre</i>	Milk Parsley	Widespread in wetlands.
<i>Oenanthe aquatica</i>		2005 Kohala and Beaver Trail (rare in Estonia)
<i>Libanotis montanum</i>	Moon Carrot	2005 Laelatu
<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	Vidumae
<i>Torilis japonica</i>	Upright Hedge Parsley	Scattered records.
<i>Daucus carota</i>	Wild Carrot	Scattered records.
 <i>Pyrolaceae</i>		
<i>Pyrola chlorantha</i>	Green-flowered Wintergreen	2005 scattered in Lahemaa area
<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> ? 2005 certainly by the Beaver Trail
<i>Pyrola media</i>	Intermediate Wintergreen	2004. Scattered in east. 2005 scattered in the west!
<i>Pyrola minor</i>	Common Wintergreen	Scattered – mostly in east
<i>Moneses uniflora</i>	One-flowered Wintergreen	Scattered
<i>Chimaphila umbellata</i>	Umbellate Wintergreen	2004. Noted near Viru Bog and in good flower on the Tagamõisa Peninsula. 2005 not in good flower – little too early
<i>Orthilia secunda</i>	Toothed Wintergreen	Common in forests.
<i>Monotropa hypopitys</i>	Yellow Birdsnest	Near Viru Bog. 2005 Kohala
 <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>		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.

### *Primulaceae*

<i>Primula veris</i>	Cowslip	In seed locally.
<i>Primula farinosa</i>	Birds-eye Primrose	2004. Matsalu and Saaremaa – in seed
<i>Lysimachia vulgaris</i>	Yellow Loosestrife	Widespread.
<i>Lysimachia nummularia</i>	Creeping Jenny	Scattered records – in leaf
<i>Lysimachia thyrsofolia</i>	Tufted Loosestrife	Local, e.g. Varangu, Oandu
<i>Trientalis europaea</i>	Chickweed Wintergreen	Scattered records.
<i>Glaux maritima</i>	Sea Milkwort	2004. Vilsandi and Tagamõisa Peninsula. 2005 also Matsalu
<i>Androsace septentrionalis</i>		2005 in seed on gravel flats at end of Tagamõisa Peninsula

### *Oleaceae*

<i>Fraxinus excelsior</i>	Ash	Widespread.
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### *Gentianaceae*

<i>Centaurium littorale</i>	Seaside Centaury	Saaremaa.
[ <i>Centaurium erythraea</i>	Common Centaury	Saaremaa.]
<i>Centaurium pulchellum</i>	Lesser Centaury	2004. Matsalu. 2005 Tagamõisa Peninsula

### *Menyanthaceae*

<i>Menyanthes trifoliata</i>	Bogbean	Bogs in Lahemaa and Saaremaa
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### *Asclepiadaceae*

<i>Vincetoxicum hirsutinaria</i>	Swallow-wort	2005 Puutu Mets
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### *Rubiaceae*

<i>Asperula tinctoria</i>	Dyer's Woodruff	Locally common.
<i>Galium boreale</i>	Northern Bedstraw	Widespread.
<i>Galium verum</i>	Lady's Bedstraw	Widespread and very common.
<i>Galium x pomeranicum</i>		2005 – the hybrid between Lady's Bedstraw and Hedge Bedstraw with creamy flowers was noted at Kohala
<i>Galium odoratum</i>	Woodruff	Puutu Mets
<i>Galium aparine</i>	Cleavers	Scattered records.
<i>Galium album</i>	Upright Bedstraw	Widespread.
<i>Galium palustre</i>	Marsh Bedstraw	Common
<i>Galium uliginosum</i>	Fen Bedstraw	2005 Kohala

### *Convolvulaceae*

<i>Calystegia sepium</i>	Hedge Bindweed	Scattered records.
<i>Convolvulus arvensis</i>	Field Bindweed	Common.

### *Boraginaceae*

<i>Echium vulgare</i>	Viper's Bugloss	Common.
<i>Pulmonaria officinalis</i>	Lungwort	Lahemaa.
<i>Symphytum officinalis</i>	Common Comfrey	2004. Varangu. 2005 Matsalu
<i>Anchusa officinalis</i>	Alkanet	Scattered records.
<i>Myosotis arvensis</i>	Field Forget-me-not	Scattered records.
<i>Myosotis scorpioides</i>	Water Forget-me-not	Common in suitable habitat
<i>Myosotis laxa</i>		2005 Kohala – probably this species
<i>Lappula squarrosa</i>	Bur Forget-me-not	Tagamõisa Peninsula

### Lamiaceae

<i>Ajuga reptans</i>	Bugle	Tagamõisa Peninsula.
<i>Teucrium scordium</i>	Water Germander	Tagamõisa Peninsula
<i>Scutellaria galericulata</i>	Scull-cap	Scattered.
<i>Scutellaria hastifolia</i>	Spear-leaved Skullcap	Tagamõisa Peninsula
<i>Galeopsis bifida</i>	Bifid Hemp-nettle	Scattered records.
<i>Galeopsis speciosa</i>		2005 Matsalu
<i>Lamium album</i>	White Deadnettle	Scattered records.
[ <i>Lamium purpureum</i>	Red Deadnettle	2004. Kohala etc.]]
[ <i>Lamiastrum galeobdolon</i>	Yellow Archangel	Lahemaa.
<i>Stachys palustris</i>	Marsh Woundwort	Widespread.
<i>Stachys sylvatica</i>	Hedge Woundwort	Matsalu
<i>Glechoma hederacea</i>	Ground Ivy	Widespread.
<i>Prunella vulgaris</i>	Self-heal	Widespread.
<i>Acinos arvensis</i>	Basil-Thyme	Scattered throughout
<i>Clinopodium vulgare</i>	Wild Basil	Scattered records.
<i>Origanum vulgare</i>	Marjoram	Scattered records.
<i>Thymus serpyllum</i>	Breckland Thyme	Locally common.
<i>Lycopus europaeus</i>	Gypsywort	Scattered records.
<i>Mentha aquatica</i>	Water Mint	Scattered.
<i>Mentha arvensis</i>	Corn Mint	Scattered
[ <i>Salvia nemorosa</i>	Wild Sage	Occasional on roadsides.]

### Solanaceae

<i>Solanum dulcamara</i>	Bittersweet	Scattered
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### Scrophulariaceae

<i>Verbascum thapsus</i>	Aaron's Rod	Locally common.
<i>Verbascum nigrum</i>	Dark Mullein	Common.
<i>Scrophularia nodosa</i>	Common Figwort	Widespread.
<i>Chaneorhinum minus</i>	Small Toadflax	Tagamõisa Peninsula
<i>Linaria vulgaris</i>	Common Toadflax	Locally common.
[ <i>Cymbalaria muralis</i>	Ivy-leaved Toadflax	2004. Tallinn. Apparently not recorded in any of the Baltic States before!]
<i>Veronica longifolia</i>	Long-leaved Speedwell	Scattered records.
<i>Veronica austriaca teucrium</i>	Large Speedwell	2004. Recorded as <i>Veronica teucrium</i> in the Baltic Flora. Kohala
<i>Veronica spicata</i>	Spiked Speedwell	Scattered records.
<i>Veronica officinalis</i>	Heath Speedwell	Scattered records.
<i>Veronica chamaedrys</i>	Germander Speedwell	Scattered records.
<i>Veronica arvensis</i>	Field Speedwell	2005 Laelatu
<i>Veronica beccabunga</i>	Brooklime	Widespread in suitable habitat.
<i>Veronica anagallis-aquatica</i>	Blue Water Speedwell	Scattered records.
<i>Veronica scutellata</i>	Marsh Speedwell	Matsalu and Saaremaa
<i>Odontites vulgaris</i>		Widespread.
<i>Odontites littoralis</i>		Vilsandi Island and Tagamõisa Peninsula
<i>Melampyrum pratense</i>	Common Cow-wheat	Widespread and very common.
<i>Melampyrum sylvaticum</i>	Small Cow-wheat	Common.
<i>Melampyrum arvense</i>	Field Cow-wheat	Scattered records.
<i>Melampyrum nemorosum</i>		Widespread and locally abundant.
<i>Melampyrum cristatum</i>	Crested Cow-wheat	Tagamõisa Peninsula
<i>Euphrasia nemorosa</i>	Wind Eyebright	Tagamõisa Peninsula
<i>Euphrasia rostkoviana</i>		2005 Laelatu
<i>Pedicularis palustris</i>	Red Rattle	2004. Vidumae. 2005 Endla
<i>Pedicularis sceptrum-carolinum</i>	Moor King	Some fine plants near Vidumae!



<i>Rhinanthus minor</i> <i>Rhinanthus serotinus</i> <i>Rhinanthus osiliensis</i>	Yellow Rattle	Scattered records. 2004. Pohja Kõrvemaa-Maastiku-Kaitseala 2004. Very rare endemic of western Saaremaa seen in a couple of places on the Tagamõisa Peninsula. 2005 Probably this species in a fen near Kihelkonna!
<b>Orobanchaceae</b>		
<i>Orobanche</i> sp.		A robust yellow species apparently parasitic on umbellifers seen at Pohja-Korvemaa maastiku-kaitsealu. 2005 Laelatu
<i>Orobanche elatior</i>		
<b>Lentibulariaceae</b>		
<i>Pinguicula vulgaris</i> [ <i>Pinguicula alpina</i>	Common Butterwort Alpine Butterwort	In leaf on Saaremaa. 2004 in flower at Varangu 2004. In leaf in the ditch by the HQ at Vidumae]
<i>Utricularia minor</i>		2005 scattered by the boardwalk in Viru Bog and also seen at the bog near Kihelkonna
<i>Utricularia ochroleuca</i>		2005 bog near Kihelkonna. This should be checked as only recorded in Latvia and Lithuania from region but had the characteristic leaflets?
<i>Utricularia vulgaris</i>		2005 bog near Kihelkonna
<b>Plantaginaceae</b>		
<i>Plantago major</i> <i>Plantago media</i> <i>Plantago lanceolata</i> <i>Plantago maritima</i>	Greater Plantain Hoary Plantain Ribwort Plantain Sea Plantain	
<b>Caprifoliaceae</b>		
[ <i>Sambucus racemosa</i> <i>Sambucus nigra</i> <i>Viburnum opulus</i> [ <i>Viburnum lantana</i> <i>Lonicera xylosteum</i> <i>Linnaea borealis</i>	Red-berried Elder Elder Guelder Rose Wayfaring Tree Fly Honeysuckle Twinflower	Widespread. Not native.] Scattered. Not native. Scattered records. 2004. Scattered] 2004. Scattered Local in boggy forests. Very common at Oandu
<b>Adoxaceae</b>		
<i>Adoxa moschatellina</i>	Moschatel	2005 scattered
<b>Valerianaceae</b>		
<i>Valeriana officinalis</i> <i>Valeriana sambucifolia</i>	Common Valerian	Scattered 2004. Widespread
<b>Dipsacaceae</b>		
<i>Knautia arvensis</i> <i>Succisia pratensis</i>	Field Scabious Devil's-bit Scabious	Widespread and common. Scattered
<b>Campanulaceae</b>		
<i>Campanula rotundifolia</i> <i>Campanula persicifolia</i> <i>Campanula patula</i>	Harebell Peach-leaved Bellflower Spreading Bellflower	Widespread and common. Widespread and common. 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. 2005 Tagamõisa Peninsula
 <i>Asteraceae</i>		
<i>Eupatorium cannabinum</i>	Hemp Agrimony	2005 Varangu
<i>Solidago virgaureae</i>	Golden-rod	Widespread and very common.
<i>Bellis perennis</i>	Daisy	Widespread.
<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	Scattered
<i>Gnaphalium uliginosum</i>		2005 Beaver Trail
<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>Senecio viscosus</i>		2005 Tagamõisa Peninsula
<i>Tussilago farfara</i>	Coltsfoot	Scattered
<i>Petasites hybridus</i>	Butterbur	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	Kohala etc.
<i>Matricaria recutita</i>		2005 Matsalu
<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 to the Baltic Countries.]
<i>Serratula tinctoria</i>	Saw-wort	2005 Laelatu
<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 (helenium)</i>		Kohala
<i>Cirsium oleraceum</i>	Cabbage Thistle	Widespread and common.
<i>Centaurea cyaneus</i>	Cornflower	2005 Altmõisa – Estonia's national flower!
<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.
		2005 Laelatu
<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>Sonchus arvensis</i>	Field Sowthistle	2005 Matsalu and Puhtu
<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. 2005 Varangu
<i>Leontodon autumnalis</i>	Autumn Hawkbit	2005 Tagamõisa Peninsula
<i>Crepis paludosa</i>	Marsh Hawk's-beard	Widespread
[ <i>Hieracium umbellata</i>	Leafy Hawkweed	2004. Scattered]
<i>Hieraceum pilosella</i>	Mouse-ear Hawkweed	Widespread

## ***Monocotyledons***

### *Alismataceae*

<i>Alisma plantago-aquatica</i>	Water Plantain	Scattered in aquatic habitats.
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### *Hydrocharitaceae*

<i>Hydrocharis morsus-ranae</i>	Frog-bit	2005 coastal dykes at Letipea
<i>Striotes aloides</i>	Water Soldier	2005 Endla

### *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. 2005 also Matsalu
<i>Triglochin palustre</i>	Marsh Arrow-Grass	2004. Varangu and Vilsandi

### *Potamogetonaceae*

<i>Potamogeton natans</i>	Broad-leaved Pondweed	Endla Lake
<i>Potamogeton graminifolius</i>		2005 Tagamõisa Peninsula
<i>Potamogeton pusillus</i>		2005 Vilsandi
<i>Potamogeton berchtoldii</i>		2005 Tagamõisa Peninsula
<i>Potamogeton crispus</i>	Curled Pondweed	Widespread
<i>Potamogeton filiformis</i>		2005 Vilsandi
<i>Potamogeton pectinatus</i>		2005 Vilsandi

### *Ruppiaceae*

<i>Ruppia maritima</i>		2005 Vilsandi
<i>Ruppia cirrhosa</i>		2005 Tagamõisa Peninsula

### *Zosteraceae*

<i>Zostera marina</i>	Eel-Grass	Tagamõisa Peninsula
<i>Zostera noltei/angustifolia</i>		2005 Vilsandi Island – but not recorded in Baltic Flora, possibly not separated?

### *Hydrocharitaceae*

<i>Elodea canadensis</i>	Canadian Waterweed	2005 Kohala
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### *Sparganiaceae*

[ <i>Sparganium glomeratum</i>		Scattered records.]
<i>Sparganium erectum</i>		2005 scattered in Lahemaa
<i>Sparganium angustifolium</i>		2005 in narrow channels behind Endla Bog

## Liliaceae

<i>Allium ursinum</i>	Ramsons	Abundant near Kunda. 2005 also Puutu – apparently a rare and protected species in Estonia
<i>Allium schoenoprasum</i>	Chives	Tagamõisa Peninsula
<i>Allium vineale</i>	Crow Garlic	2004. Tagamõisa Peninsula. 2005 and Puutu
<i>Allium oleraceum</i>	Field Garlic	Vilsandi Island. 2005 also Kohala
<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. 2005 only near Virtsu!
<i>Paris quadrifolia</i>	Herb Paris	Scattered records.
<i>Polygonatum odoratum</i>	Angular Solomon's Seal	Scattered records.
<i>Polygonum multiflorum</i>		Matsalu

## Iridaceae

<i>Iris pseudacorus</i>	Yellow Flag	Scattered records
<i>Iris sibirica</i>		2005 in fruit at Matsalu

## Juncaceae

<i>Luzula pilosa</i>		Scattered
<i>Luzula multiflora</i>		Widespread
<i>Juncus gerardii</i>		Scattered coastally
[ <i>Juncus filiformis</i>	Thread Rush	Scattered throughout
<i>Juncus balticus</i>		2005 Tagamõisa Peninsula
<i>Juncus effusus</i>	Soft Rush	Scattered
[ <i>Juncus conglomeratus</i>	Compact Rush	Scattered
<i>Juncus compressus</i>	Round-fruited Rush	Varangu
<i>Juncus bufonius</i>	Toad Rush	Widespread
<i>Juncus ranarius</i>		2005 Tagamõisa Peninsula
<i>Juncus articulatus</i>	Jointed Rush	Widespread
<i>Juncus bulbosus</i>		2005 Laelatu and Vidumae

## Poaceae

<i>Festuca gigantea</i>		2004. Varangu. 2005 Beaver Trail
<i>Festuca altissima</i>	Wood Fescue	Scattered
<i>Festuca ovina</i>	Sheep's Fescue	Kohala
<i>Festuca rubra</i>	Red Fescue	Widespread
<i>Lolium perenne</i>	Perennial Ryegrass	Widespread in fields
<i>Poa annua</i>	Annual Meadow-grass	Widespread in ruderal habitats
<i>Poa nemoralis</i>		2005 Puutu Mets
<i>Poa trivialis</i>	Rough Meadow-grass	2005 widespread in damp meadows
<i>Dactylis glomerata</i>	Cocksfoot	Widespread
<i>Briza media</i>	Quaking Grass	Widespread
<i>Milium effusum</i>		Scattered
<i>Melica nutans</i>		Scattered
<i>Glyceria notata</i>		2005 scattered throughout
<i>Brachypodium pinnatum</i>		2005 Laelatu
<i>Brachypodium sylvaticum</i>		2005 Puutu Mets
<i>Bromus (Bromopsis) benekenii</i>		2005 Laelatu
<i>Bromus inermis</i>	Hungarian Brome	Widespread
[ <i>Bromus hordeaceus</i>	Soft Brome	]
<i>Avena fatua</i>	Wild Oat	Vilsandi
<i>Deschampsia cespitosa</i>	Tufted Hair-grass	Widespread
<i>Deschampsia flexuosa</i>	Wavy Hair-grass	Kohala etc

<i>[Hierochloa australis</i>	Southern Holy Grass	]
<i>Hierochloa odorata</i>	Holy Grass	2005 scattered
<i>Anthoxanthum odoratum</i>	Sweet Vernal Grass	Laelatu Mets
<i>Agrostis canina</i>	Velvet Bent	Laelatu Mets
<i>Agrostis stolonifera</i>	Creeping Bent	Scattered
<i>[Calamagrostis canescens</i>	Purple Small-reed	]
<i>[Calamagrostis arundinacea</i>	Rough Small-reed	]
<i>Phleum bertolonii</i>		2005 Kohala
<i>[Phleum pratense</i>	Timothy	]
<i>Alopecurus arundinaceus</i>		2005 Kohala
<i>Alopecurus geniculatus</i>	Marsh Foxtail	2005 scattered
<i>Alopecurus pratensis</i>	Meadow Foxtail	Scattered
<i>Hordeum jubatum</i>		Tagamõisa Peninsula
<i>Elytrigia arenaria</i>	Couch	Kohala etc
<i>Phalaris arundinacea</i>	Reed Canary-grass	Widespread along rivers etc
<i>Phragmites australis</i>	Common Reed	Locally abundant!
<i>Molinia caerulea</i>	Purple Moor-grass	Scattered – locally dominant
<i>[Nardus stricta</i>	Mat Grass	]
<i>Helictotrichon pratense</i>		Kohala etc
<i>Leymus arenarius</i>	Lyme Grass	Coasts

#### Araceae

<i>Calla palustris</i>	Bog Arum	Scattered in bogs.
<i>Acorus calamus</i>	Sweet Flag	2005 leaves noted in a few localities

#### Lemnaceae

<i>[Lemna minor</i>	Common Duckweed	]
<i>Lemna trisulca</i>		2004. Varangu. 2005 Kohala
<i>Spirodela polyrhiza</i>		2005 Endla

#### Typhaceae

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

#### Cyperaceae

<i>Scirpus sylvaticus</i>		2004. Widespread
<i>Bulboschoenus maritimus</i>		2005 Saaremaa coasts
<i>Schoenoplectus lacustris</i>		2004. Matsalu
<i>Schoenoplectus tabernaemontani</i>		2004. Matsalu. Apparently often grows in the sea in Estonia so presumably this was the <i>S. maritimus</i> we saw at Virtsu?
<i>Blysmus compressus</i>	Blysmus	2004. Tagamõisa Peninsula
<i>Blysmus rufus</i>		2005 common on Saaremaa coastal marshes
<i>Eriophorum vaginatum</i>	Harestail Cotton Grass	Common in bogs.
<i>Trichophorum cespitosum</i>		2004. Widespread in bogs
<i>Trichophorum alpinum</i>		2005 Saaremaa
<i>Eriophorum angustifolium</i>		2005 Viru Bog
<i>Eriophorum latifolium</i>		2005 common in Saaremaa fens
<i>Eriophorum gracile</i>		2005 Tagamõisa Peninsula
<i>Eleocharis uniglumis</i>		2005 common along coasts
<i>Eleocharis palustre</i>	Marsh Horsetail	2005 widespread
<i>Eleocharis acicularis</i>		2005 coasts of Saaremaa
<i>Eleocharis quequiflora</i>		2005 Saaremaa
<i>Schoenus nigricans</i>		2005 Tagamõisa Peninsula
<i>Schoenus ferrugineus</i>		2005 Laelatu

<i>Cladium mariscus</i>		2004. Tagamõisa Peninsula by lake
<i>Rhynchospora alba</i>	White Beaked Sedge	2004. Viru Bog
<i>Carex pauciflora</i>	Few-flowered Sedge	2005
<i>Carex pulicaris</i>	Flea Sedge	2004. Vilsandi Island. 2005 Matsalu and Puutu
[ <i>Carex dioica</i>	Dioecious Sedge	]
<i>Carex davalliana</i>		2005 locally abundant in wet areas of Puutu and Laelatu, also near Vidumae
<i>Carex hirta</i>	Hairy Sedge	Widespread
<i>Carex lasiocarpa</i>	Slender Sedge	Scattered in east
<i>Carex riparia</i>	Greater Pond Sedge	2005 Kohala and Matsalu
[ <i>Carex acutiformis</i>	Lesser Pond Sedge	Varangu]
<i>Carex pseudocyperus</i>	Cyperus Sedge	Scattered throughout
<i>Carex rhynchophysa</i>		Bogs and Mires in the east of the country
<i>Carex rostrata</i>	Bottle Sedge	Standing water including rivers in east
<i>Carex vesicaria</i>	Bladder Sedge	Scattered throughout
<i>Carex sylvatica</i>	Wood Sedge	2005 Endla
<i>Carex capillaris</i>	Hair Sedge	2005 Puutu
<i>Carex flacca</i>	Glaucous Sedge	Widespread
<i>Carex panicea</i>	Carnation Sedge	Widespread
<i>Carex vaginata</i>	Sheathed Sedge	Common in wooded areas such as Puutu and Vidumae
<i>Carex distans</i>	Distant Sedge	Coastal areas such as Vilsandi Island and Matsalu
<i>Carex hostiana</i>	Tawny Sedge	Widespread
<i>Carex flava</i>	Large Yellow Sedge	Varangu. 2005 Kohala
<i>Carex lepidocarpa</i>	Long-stalked Yellow Sedge	2004. Vilsandi Island. 2005 also Endla
[ <i>Carex demissa</i>	Common Yellow Sedge	2004. Vilsandi Island]
<i>Carex serotina</i>	Small-fruited Yellow Sedge	Vilsandi Island, Tagamõisa Peninsula and Matsalu
[ <i>Carex (x) bergrothii</i>		2004. Tagamõisa Peninsula & Vilsandi Island]
<i>Carex pallescens</i>	Pale Sedge	Widespread in meadows
<i>Carex ornithopoda</i>	Bird's-foot Sedge	Varangu along woodland paths. 2005 Woods east of Kohala and also at Puutu where grows with <i>digitata</i> !
<i>Carex digitata</i>	Fingered Sedge	2005 Puutu
<i>Carex montana</i>	Soft-leaved Sedge	2005 Tagamõisa Peninsula
<i>Carex ericetorum</i>	Rare Spring Sedge	2005 Woods around Viru Bog
<i>Carex globularis</i>		2005 Endla and also woods east of Kohala
<i>Carex tomentosa</i>	Downy-fruited Sedge	2005 common at Matsalu, Laelatu and Vidumae
<i>Carex magellanica</i>	Bog Sedge	Bogs – e.g. Viru and Endla
<i>Carex limosa</i>	Mud Sedge	2005 wettest parts of bogs – e.g. Viru and Endla
<i>Carex hartmanii</i>		2005 Tagamõisa Peninsula
<i>Carex buxbaumii</i>	Club Sedge	Common in seasonally inundated parts of the Tagamõisa Peninsula
<i>Carex acuta</i>	Slender Tufted Sedge	Scattered
<i>Carex nigra</i>	Common Sedge	Common
<i>Carex aquatilis</i>	Water Sedge	2005 a large stand at Varangu Springs
<i>Carex elata</i>	Tufted Sedge	2005 scattered in the east
<i>Carex cespitosa</i>		Scattered in east
<i>Carex trinervis</i>		2005 this would be new to Estonia (and the Baltic States) if correct. It was growing in a large stand in water to the right of and left of the path to Viru Bog just a hundred yards from the carpark – one to check!
<i>Carex appropinquata</i>	Fibrous Tussock Sedge	Varangu, Endla and Tagamõisa Peninsula
<i>Carex diandra</i>	Lesser Tussock Sedge	Endla, Varangu and bogs on Saaremaa

<i>Carex vulpina</i>	True Fox Sedge	2005 ditches at Matsalu
<i>Carex otrubae</i>	False Fox Sedge	Varangu, Matsalu and Laelatu – apparently rare in Estonia?
<i>Carex divulsa</i>	Grey/Leers' Sedge	Though the Baltic Flora suggests that specimens identified as this species in Estonia are <i>contigua</i> plants found on the coast of the Tagamõisa Peninsula seemed to be closer to this species?
<i>Carex muricata</i>	Prickly Sedge	2005 Endla
<i>Carex contigua</i>	Spiked Sedge	Laelatu, Vidumae and Tagamõisa Peninsula
<i>Carex disticha</i>	Brown Sedge	Viru and Varangu
<i>Carex arenaria</i>	Sand Sedge	Coasts of Tagamõisa Peninsula
<i>Carex leporina</i>	Oval Sedge	Formerly known as <i>Carex ovalis</i> . Scattered
<i>Carex echinata</i>	Star Sedge	Scattered
<i>Carex elongata</i>	Elongated Sedge	2005 scattered in the east
<i>Carex canescens</i>		Widespread
<i>Carex brunnescens</i>		Damp woods at Viru and Oandu
<b>Orchidaceae</b>		
<i>Cypripedium calceolus</i>	Lady's Slipper	Many plants in seed at Varangu.
<i>Epipactis palustris</i>	Marsh Helleborine	Very common on the Tagamõisa Peninsula and Vilsandi
<i>Epipactis helleborine</i>	Broad-leaved Helleborine	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	Common in north of Tagamõisa Peninsula
<i>Listera cordata</i>	Lesser Twayblade	Oandu and Tagamõisa Peninsula
<i>Listera ovata</i>	Twayblade	Scattered throughout
<i>Neottia nidus-avis</i>	Bird's-nest Orchid	Scattered throughout, very local
<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. 2005 scarce – only in bud
<i>Corallorhiza trifida</i>	Coralroot Orchid	2005 a few plants at a very nice site on the Tagamõisa Peninsula
<i>Herminium monorchis</i>	Musk Orchid	Vilsandi National Park. 2004. Several places on the Tagamõisa Peninsula. 2005 ditto plus Altmõisa
<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. 2005 ditto except many in good flower and additional colony found
<i>Platanthera bifolia</i>	Lesser Butterfly Orchid	Widespread – many in flower
<i>Platanthera chlorantha</i>	Greater Butterfly Orchid	Scattered records. 2004/5 only in flower on the Tagamõisa Peninsula
<i>Gymnadenia conopsea</i>	Fragrant Orchid	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. 2005 ditto also Kohala (seed)
<i>Orchis ustulata</i>	Burnt-tip Orchid	2004. In flower Tagamõisa Peninsula. 2005 ditto plus Laelatu
<i>Dactylorhiza incarnata</i>	Early Marsh Orchid	In flower at Toolse. 2004/5 Scattered
<i>Dactylorhiza cruenta</i>		2004. Flowers just finishing. Couple of places on the Tagamõisa Peninsula. 2005 ditto – in flower

<i>Dactylorhiza ochroleuca</i>		2005 seen in flower at a bog with Fen Orchid on the Tagamõisa Peninsula – this species is unrecorded from Estonia so needs checking
<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 maculata</i>		2005 scattered – assuming you believe it is separate from <i>fuchsii</i> !
<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>		In seed at Puhtu Mets the only known certain site in Estonia. However a few plants at Vidumae which were in flower so closely resemble this species though apparently they are regarded as hybrids by Estonian orchid experts
<i>Ophrys insectifera</i>	Fly Orchid	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. 2005 ditto



## 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 6 <sup>th</sup>	Tallinn to Kohala
Day 2	July 7 <sup>th</sup>	Kohala and Letipea
Day 3	July 8 <sup>th</sup>	Lahemaa – Viru Bog and Pohja Körvemaa-Maastiku-Kaitseala
Day 4	July 9 <sup>th</sup>	Lahemaa – Oandu, Beaver Trail and Palmse
Day 5	July 10 <sup>th</sup>	Endla Bog and Varangu Springs
Day 6	July 11 <sup>th</sup>	Kohala to Matsalu – Suitsu & Klootsi watchtowers & Altmoisa
Day 7	July 12 <sup>th</sup>	Puhtu Mets, Laelatu Puisniit and Saaremaa
Day 8	July 13 <sup>th</sup>	Saaremaa – Vidumae & the western Tagamõisa Peninsula
Day 9	July 14 <sup>th</sup>	Saaremaa - Vilsandi Island & the northern and eastern Tagamõisa Peninsula
Day 10	July 15 <sup>th</sup>	Vidumae/Virtsu & Riispere – then to Tallinn

### *Papilionidae*

Swallowtail      *Papilio machaon*      3 on the Tagamõisa Peninsula

### *Pieridae*

Large White	<i>Pieris brassicae</i>	Scattered
Black-veined White	<i>Aporia crataegi</i>	Several seen at Matsalu and Saaremaa
Green-veined White	<i>Artogeia napi</i>	Widespread
Moorland Clouded Yellow	<i>Colias palaeno</i>	3 at Viru Bog and several at Endla Bog
Brimstone	<i>Gonepteryx rhamni</i>	Scattered

### *Lycaenidae*

Green Hairstreak	<i>Callophrys rubi</i>	1 at Viru Bog
Large Copper	<i>Lycaena dispar</i>	2 nice colonies found at Kohala one with about ten butterflies
Scarce Copper	<i>Lycaena virgaurea</i>	Unaccountably scarce this time with just a few seen on Saaremaa
Purple-edged Copper	<i>Lycaena hippothoe</i>	A male at Kohala
Little Blue	<i>Cupido minimus</i>	Noted at Kohala
Large Blue	<i>Maculinea arion</i>	Noted on Vilsandi
Silver-studded Blue	<i>Plebejus argus</i>	Scattered
Cranberry Blue	<i>Vacciniina optilete</i>	Locally common in Lahemaa
Amanda's Blue	<i>Agrodiaetus amanda</i>	Widespread and common
Common Blue	<i>Polyommatus icarus</i>	Amazingly <i>not</i> seen!

### *Nymphalidae*

Purple Emperor	<i>Apatura iris</i>	Locally quite common
Lesser Purple Emperor	<i>Apatura ilia</i>	Locally common especially at Matsalu and Vidumae
White Admiral	<i>Limenitis camilla</i>	Scattered at Matsalu and on Saaremaa
Red Admiral	<i>Vanessa atalanta</i>	Just one seen on Vilsandi Island
Small Tortoiseshell	<i>Aglais urticae</i>	Widespread
Map Butterfly	<i>Araschnia levana</i>	1 at Puhtu
Silver-washed Fritillary	<i>Argynnis paphia</i>	Rather uncommon on Saaremaa
Dark Green Fritillary	<i>Argynnis aglaja</i>	Locally abundant on Saaremaa
Lesser Marbled Fritillary	<i>Brenthis ino</i>	Widespread

Small Pearl-bordered Fritillary	<i>Clossiana selene</i>	2 at Endla
Pearl-bordered Fritillary	<i>Clossiana euphrosyne</i>	1 on the Tagamõisa Peninsula
Heath Fritillary	<i>Mellicta athalia</i>	Widespread and common
Nickerl's Fritillary	<i>Mellicta aurelia</i>	1 on the Tagamõisa Peninsula

### ***Satyridae***

Common Grayling	<i>Hipparchia semele</i>	Noted on the Tagamõisa Peninsula and Vilsandi Island
Meadow Brown	<i>Maniola jurtina</i>	Widespread.
Ringlet	<i>Aphantopus hyperantus</i>	Very common and widespread
Chestnut Heath	<i>Coenonympha glycerion</i>	Locally common
Speckled Wood	<i>Pararge aegeria</i>	Oandu
Woodland Brown	<i>Lopinga achine</i>	Several at Vidumae Nature Reserve and on the Tagamõisa Peninsula

### ***Hesperiidae***

Essex Skipper	<i>Thymelicus lineola</i>	Rather uncommon
Small Skipper	<i>Thymelicus sylvestris</i>	Scattered
Large Skipper	<i>Ochlodes venatus</i>	Reasonably common

## List Number 3      Moths

The following is taken entirely from the 2004 tour when most of the species below were taken at light at Kohala Mōis 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

Cormorant	<i>Phalacrocorax carbo</i>	Scattered records – common on Saaremaa.
Bittern	<i>Botaurus stellaris</i>	Heard at Puhtu Mets
Grey Heron	<i>Ardea cinerea</i>	Common & widespread
White Stork	<i>Ciconia ciconia</i>	Very common & widespread on the mainland, less so on 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>	c.25 on the small islands on the way to Vilsandi Island
Gadwall	<i>Anas strepera</i>	2 at Kohala
Mallard	<i>Anas platyrhynchos</i>	Scattered
Pintail	<i>Anas acuta</i>	Noted off Vilsandi
Shoveler	<i>Anas clypeata</i>	1 off the ferry between Saaremaa and Virtsu
Goldeneye	<i>Bucephala clangula</i>	Scattered records.
Red-breasted Merganser	<i>Mergus serrator</i>	Letipea
Honey Buzzard	<i>Pernis apivorus</i>	One at Oandu and 2 en route from Kohala to Matsalu
Marsh Harrier	<i>Circus aeruginosus</i>	5+ at Matsalu
Montagu's Harrier	<i>Circus pygargus</i>	A male between Kohala and Letipea
Goshawk	<i>Accipiter gentilis</i>	1 on the Tagamõisa Peninsula
Sparrowhawk	<i>Accipiter nisus</i>	A female at Viru Bog
Common Buzzard	<i>Buteo buteo</i>	Scattered in Lahemaa
White-tailed Eagle	<i>Haliaeetus albicilla</i>	1 adult over Oandu and 2-3 birds seen very well off Vilsandi Island
Lesser-spotted Eagle	<i>Aquila pomarina</i>	Just the one bird seen at Kohala
Kestrel	<i>Falco tinnunculus</i>	Singles twice
Water Rail	<i>Rallus aquaticus</i>	One calling at Matsalu Nature Reserve.
Corncrake	<i>Crex crex</i>	Very common at Kohala – seen just the once (IG)
Coot	<i>Fulica atra</i>	Scattered
Common Crane	<i>Grus grus</i>	Uncommon this year (earlier than before?). 2 in Lahemaa, 2 on the Tagamõisa Peninsula and 5 on Vilsandi Island
Oystercatcher	<i>Haematopus ostralegus</i>	Scattered records
Little Ringer Plover	<i>Charadrius dubius</i>	Altmoisa
Ringed Plover	<i>Charadrius hiaticula</i>	Recorded along the coast at Tagamoisa Peninsula.
Snipe	<i>Gallinago gallinago</i>	5 at Altmoisa
Woodcock	<i>Scolopax rusticola</i>	1 seen roding late evening at Kohala
Lapwing	<i>Vanellus vanellus</i>	Widespread
Green Sandpiper	<i>Tringa ochropus</i>	Scattered records
Wood Sandpiper	<i>Tringa glareola</i>	1 at Altmoisa
Common Sandpiper	<i>Actitis hypoleuca</i>	1 at Altmoisa
Lesser Black-backed Gull	<i>Larus fuscus</i>	Scattered records
Black-headed Gull	<i>Larus ridibundus</i>	Locally common
Common Gull	<i>Larus canus</i>	Common & widespread.
Herring Gull	<i>Larus argentatus</i>	Scattered
Common Tern	<i>Sterna hirundo</i>	Scattered records
Arctic Tern	<i>Sterna paradisaea</i>	Sightings at Tagamõisa Peninsula & Vilsandi Island.
Little Tern	<i>Sterna albifrons</i>	Recorded on the small islands, on the way to Vilsandi Island
Caspian Tern	<i>Sterna caspia</i>	1 adult on the Tagamõisa Peninsula
Rock Dove	<i>Columba livia</i>	Feral Pigeon scattered
Woodpigeon	<i>Columba palumbus</i>	Common & widespread

Turtle Dove	<i>Streptopelia turtur</i>	Singles thrice in te Lahemaa area
Cuckoo	<i>Cuculus canorus</i>	Heard at Kohala
Short-eared Owl	<i>Asio flammeus</i>	Feathers found on a beach on the Tagamõisa Peninsula
Common Swift	<i>Apus apus</i>	Common & widespread.
Kingfisher	<i>Alcedo atthis</i>	ingles thrice at Kohala
Great Spotted Woodpecker	<i>Dendrocopos major</i>	Scattered records
Three-toed Woodpecker	<i>Picoides tridactylus</i>	1 seen at Oandu
Skylark	<i>Alauda arvensis</i>	Widespread in the meadows.
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.
White Wagtail	<i>Motacilla alba</i>	Common & widespread.
Wren	<i>Troglodytes troglodytes</i>	Scattered records.
Robin	<i>Erithacus rubecula</i>	Scattered records
Redstart	<i>Phoenicurus phoenicurus</i>	Only seen at Matsalu
Whinchat	<i>Saxicola rubetra</i>	Common in Lahemaa region absent in the west!
Northern Wheatear	<i>Oenanthe oenanthe</i>	Scattered records in the west
Blackbird	<i>Turdus merula</i>	Common & widespread.
Mistle Thrush	<i>Turdus viscivorus</i>	Only noted at Endla
Song Thrush	<i>Turdus philomelos</i>	Only seen at Varangu
Redwing	<i>Turdus iliacus</i>	Widespread though not commonly seen
Fieldfare	<i>Turdus pilaris</i>	Common around Kohala & Lahemaa.
Grasshopper Warbler	<i>Locustella naevia</i>	Heard around Kohala
River Warbler	<i>Locustella fluviatilis</i>	Heard over the river from Kohala
Marsh Warbler	<i>Acrocephalus arundinaceus</i>	Heard at Kohala
Icterine Warbler	<i>Hippolais icterina</i>	Several pairs around Kohala where particularly loud in the tree by the back door!
Barred Warbler	<i>Sylvia nisoria</i>	Heard at Matsalu
Lesser Whitethroat	<i>Sylvia curruca</i>	Kohala
Common Whitethroat	<i>Sylvia communis</i>	Kohala
Blackcap	<i>Sylvia atricapilla</i>	1 at Varangu
Greenish Warbler	<i>Phylloscopus trochiloides</i>	Several at Oandu & on the Tagamõisa Peninsula
Wood Warbler	<i>Phylloscopus sibilatrix</i>	Oandu and Varangu
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 in Lahemaa
Spotted Flycatcher	<i>Muscicapa striata</i>	Common & widespread.
Pied Flycatcher	<i>Ficedula hypoleuca</i>	Quite common at Kohala, scattered elsewhere.
Red-breasted Flycatcher	<i>Ficedula parva</i>	A male at Kohala.
Marsh Tit	<i>Parus palustris</i>	Scattered records.
Willow Tit	<i>Parus montanus</i>	Several individuals recorded.
Crested Tit	<i>Parus cristatus</i>	Lahemaa where quite common. Also at Vidumae
Great Tit	<i>Parus major</i>	Common & widespread.
Blue Tit	<i>Parus caeruleus</i>	Common & widespread.
Nuthatch	<i>Sitta europaea</i>	Heard only
Common Treecreeper	<i>Certhia familiaris</i>	1 at Puutu
Golden Oriole	<i>Oriolus oriolus</i>	A male at Kohala and heard several times there
Red-backed Shrike	<i>Lanius collurio</i>	Common & widespread.
Jay	<i>Garrulus glandarius</i>	Heard. Feathers found.
Magpie	<i>Pica pica</i>	Common & widespread
Nutcracker	<i>Nucifraga caryocatactes</i>	Heard on the Tagamõisa Peninsula and at Vidumae
Jackdaw	<i>Corvus monedula</i>	Only noted near Rakhvere.
Rook	<i>Corvus frugilegus</i>	Scattered records
Hooded Crow	<i>Corvus (corone) cornix</i>	Common & widespread

Raven	<i>Corvus corax</i>	Common in Lahemaa area
Starling	<i>Sturnus vulgaris</i>	Common & widespread on Saaremaa Island.
House Sparrow	<i>Passer domesticus</i>	Scattered on the mainland.
Chaffinch	<i>Fringilla coelebs</i>	Common & widespread.
Greenfinch	<i>Carduelis chloris</i>	Only seen at Matsalu
Goldfinch	<i>Carduelis carduelis</i>	Locally common
Linnet	<i>Carduelis cannabina</i>	Matsalu
Common Rosefinch	<i>Carpodacus erythrinus</i>	Scattered throughout
Bullfinch	<i>Pyrrhula pyrrhula</i>	Scattered records
Reed Bunting	<i>Emberiza schoeniculus</i>	1 at Kohala
Yellowhammer	<i>Emberiza citrinella</i>	Common & widespread



## Systematic List Number 5      Mammals

Fox	<i>Vulpes vulpes</i>	Singles twice on Saaremaa.
Lynx	<i>Lynx lynx</i>	Territorial scratch markings on a tree at Oandu nature trail.
Beaver	<i>Castor fiber</i>	Dams and much sign seen at the Beaver Trail.
Wild Boar	<i>Sus scrofa</i>	Rooting activity seen at several sites.
Roe Deer	<i>Capreolus capreolus</i>	Several seen on Saaremaa and en route to Tallinn.
Elk	<i>Alces alces</i>	A mother with two calves seen near Riispere between Virtsu and Tallinn on the last day
Bear	<i>Ursus arctos</i>	Territorial scratch markings on a tree along the Oandu nature trail.

## Systematic List Number 6      Reptile & Amphians

Grass Snake	<i>Natrix natrix</i>	1 in Vidumae and one seen en route to Tallinn.
Common Frog	<i>Rana temporaria</i>	Scattered records.
Common Toad	<i>Bufo bufo</i>	Scattered sightings.
Common Lizard	<i>Lacerta vivipara</i>	Common sightings along the board walks.

## Systematic List Number 7

## Crickets & Grasshoppers

This list was not added to in 2005 and so is retained merely as a record of 2004 sightings.

Large Speckled Bush-cricket Wart-biter	<i>Isophya pyrenea</i> <i>Decticus verrucivorus</i>	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.
Roesel's Bush-cricket	<i>Metrioptera roeselii</i>	1 male recorded at the coastal site Latipea.
Bog Bush-cricket	<i>Metrioptera brachyptera</i>	Common & widespread in marshy & bog areas.
Dark Bush-cricket	<i>Pholidoptera griseoptera</i>	Common & widespread.
Common Ground-hopper	<i>Tetrix undulata</i>	1 specimen recorded at Viru Bog.
Woodland Grasshopper	<i>Omocestus rufipes</i>	Common among sandy heath areas.
Mottled Grasshopper	<i>Myrmeleotettix maculatus</i>	Common among sandy heath areas at Saaremaa.
Lesser Field Grasshopper	<i>Chorthippus mollis</i>	Widespread in the meadow sites visited.
Field Grasshopper	<i>Chorthippus brunneus</i>	Common & widespread.
Heath Grasshopper	<i>Chorthippus vagans</i>	Recorded on Tagamoisa Peninsula.
Common Green Grasshopper	<i>Omocestus viridulus</i>	Common & widespread in meadow sites.
Small Gold Grasshopper	<i>Chrysochraon brachypterus</i>	1 female recorded in marshy meadows at Matsalu.
Large Gold Grasshopper	<i>Chrysochraon dispar</i>	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
Emerald Damselfly	<i>Lestes sponsa</i>	Scattered throughout
Scarce Emerald Damselfly	<i>Lestes dryas</i>	Only seen at Viru and Endla Bogs
White-legged Damselfly	<i>Platycnemis pennipes</i>	Matsalu and Saaremaa
Large Red Damselfly	<i>Pyrrhosoma nymphula</i>	Roadside river stop east of Virtsu
Red-eyed Damselfly	<i>Erythromma najas</i>	A male at the lake by Endla reception
Irish Damselfly	<i>Coenagrion lunulatum</i>	Endla Bog
Norfolk Damselfly	<i>Coenagrion armatum</i>	Several at the lake by Endla reception
Variable Damselfly	<i>Coenagrion pulchellum</i>	Noted at the lake by Endla 'reception' and at Varangu
Common Blue Damselfly	<i>Enallagma cyathigerum</i>	Locally abundant
Scarce Blue-tailed Damselfly	<i>Ischnura pumilio</i>	1 at a bog on the Tagamõisa Peninsula
Blue-tailed Damselfly	<i>Ischnura elegans</i>	Vilsandi Island
	<i>Aeshna viridis</i>	Viru Bog
	<i>Aeshna subarctica</i>	Noted at Viru Bog, Matsalu and probably Endla
	<i>Aeshna serrata</i>	Several seen at Endla Bog!
Brown Hawker	<i>Aeshna grandis</i>	Widespread
Hairy Dragonfly	<i>Brachytron pratense</i>	Viru and Endla Bogs
Downy Emerald	<i>Cordulia aenea</i>	Widespread
Brilliant Emerald	<i>Somatochlora metallica</i>	Noted at the Beaver Trail, Endla and Matsalu
Four-spotted Chaser	<i>Libellula quadrimaculata</i>	Endla Bog, Varangu and Matsalu
Black-lined Skimmer	<i>Orthetrum cancellatum</i>	Widespread
Yellow-winged Darter	<i>Sympetrum flaveolum</i>	Widespread and common
Red-veined Darter	<i>Sympetrum fonscolombei</i>	Quite common on Saaremaa
Black Darter	<i>Sympetrum danae</i>	Very common at Viru Bog not seen elsewhere
	<i>Leucorrhinia caudalis</i>	Endla Bog and probably seen at Viru Bog too
	<i>Leucorrhinia albifrons</i>	Common at Viru Bog
White-faced Darter	<i>Leucorrhinia dubia</i>	Endla Bog
	<i>Leucorrhinia rubicunda</i>	With certainty only from Viru Bog
	<i>Leucorrhinia pectoralis</i>	Oandu in Lahemaa

The following species were recorded in 2004 but not in 2005

Banded Demoiselle	<i>Calopteryx splendens</i>	Just one seen at Varangu Spring
Northern Damselfly	<i>Coenagrion hastulatum</i>	Matsalu
	<i>Coenagrion johanssoni</i>	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
Azure Hawker	<i>Aeshna caerulea</i>	Oandu in Lahemaa
The Emperor	<i>Anax imperator</i>	A female at Endla
Broad-bodied Chaser	<i>Libellula depressa</i>	1 at Varangu Spring