

Estonia

Orchids, Butterflies & Bogs

A Greentours Trip Report

6th – 16th July 2008

Led by Ian Bennallick

Day 1 July 6th Arrival

The flight from Gatwick was delayed by one and a half hours and on arrival at 12.30 in the morning we were grateful for the comfortable one night stay in the plush Hotel Ulmiste, two minutes from the airport. As we flew in over Tallinn the setting sun had coloured the horizon over Finland a wonderful red.

Day 2 July 7th Kohala Manor

With a late arrival we enjoyed a leisurely breakfast before stocking up on some picnic extras from the shopping mall and supermarket next to the hotel. With a clear blue sky with a few Swift reeling around, it looked good for the drive of about 100km to Kohala Mois (Mois=Manor house). As we drove along the main Tallinn to St. Petersburg road, the fluffy clouds and mackerel sky started to appear, giving a wonderful cloudscape, and along the verges were drifts of Meadowsweet, Sticky Catchfly and Rosebay Willowherb. Turning onto the small road to Uhtna we were soon surrounded by a mixture of pine forest and wide open fields, cultivated or not, edged by roadside verges thick with flowers and tall grasses. We stopped for a short leg stretch and explored a little way along the road and woodland, and found huge patches of the shocking purple and yellow *Melampyrum nemorosum* with very tall Ground Elder. In the field the bright blue purple *Campanula patula* was scattered with Northern Bedstraw, Lady's Bedstraw and ZigZag Clover; and further along the roadsides to Kohala verges were purple with the tall purple legume Goat's-rue. As we turned down the lane to the manor house, a large nest on top of a brick chimney nearby had a pair of White Storks, unperturbed by locals eating ice-cream below.

On arrival at Kohala we were shown to our rooms by Karin, the owner, and ate our picnic on the lawn in front of their large lake, which is surrounded by large oaks and alders. As we ate we watched Spotted and Pied Flycatchers flitting around the water's edge, raucous Fieldfares and sweeter calling Goldfinch in the trees. Margaret spotted some ducks – a family of Goldeneye - four fairly well-grown young and a female, diving and bobbing back up, then diving again. A Common Rosefinch called 'pleased to meet you' in the trees and Chiffchaffs and Blackcaps chiffchaffed and warbled away. With lunch out the way we walked through the stable area and towards the small

bridge over the River Kunda, a wide and slow-moving river lined with trees. In the verges, amongst Butterbur, Ground Elder, Hungarian Brome grass, and the almost prickleless variety of Creeping Thistle (var. *setosum*), Ian saw a funny looking nettle, which on closer inspection turned out to be Motherwort, a rare plant in the British Isles. A couple of heavily coloured Moor Frogs evaded capture and Marion was taken with some nicely coloured snails. Across the bridge we didn't get very far before we saw and heard some choice birds. A Red-backed Shrike was seen on some old dead tree branches, superb views in the scope, and beyond, quartering a just-mown silage field, a female Montagu's Harrier dipped and dived on what may have been there before (hopefully not chopped up Corncrake, which had been heard from this field in the past!). A loud Greenish Warbler sang invisibly in the willows, and the warbler was soon accompanied by a Common Whitethroat, a Yellowhammer, and several Hooded Crow (maybe a 'gang of hoodies'?) and Rook. By now it had clouded up and it was almost raining so not surprisingly butterflies were few – only a fresh Large Skipper, and several Ringlet were seen.

With rain promising we walked back to the manor house, and a little way along the lake, passing rather nice Wood Club-rush, invading stands of the naturalised white-flowered *Sorbaria sorbifolia*, and some *Acer negundo* with curiously Ash-leaf shaped leaves. As we reached the 'Horse field' (Mika and Karin keep several Icelandic Horses), we were spotted by the attractive beasts from across the field and soon we were being nuzzled by some friendly (and cute) characters. We could look for birds around them, and Margaret saw a lovely Whinchat on some tall thistles, and Marion spotted a Great Spotted Woodpecker, showing off its tree-mendous climbing skills on a dead tree. The grazed meadow was dotted with the pink Marsh Cranesbill, white Northern Bedstraw (which had formed a clotted cream coloured hybrid with intermingled yellow-flowered Lady's Bedstraw), foamy Meadowsweet, Common Meadow-rue, a little bit of Ragged Robin and the curiously rounded leaves of the '*cassubica*' form of Goldilocks Buttercup. Molehills in the field showed how dark and silty the soil was here. Along the river some fine flowering umbels of Greater Water-parsnip (now endangered in the British Isles) grew with Water Forget-me-not, Bur-reed and Water Horsetail, and another Red-backed Shrike was seen on a dead tree (maybe the same bird as was seen earlier?). One Amanda's Blue butterfly was seen sheltering from the spotting rain, but Ringlets were still active. In the distance a Common Crane called.

We were joined at dinner by a group of Swedish holiday makers who had been riding Mika and Karin's horses during the day – our short walk seemed mild compared to their 45km on horseback (6 hours worth!). In one newly-cut silage field they had seen 68 White Stork going after what remained from the silage cutter! Dinner was delicious with a feta cheese salad, pork stew and ice cream with walnuts, topped off with a complimentary after dinner liqueur (the famous Old Tallinn) courtesy of Mika, who entertained us with his stories of life in Estonia and his native Finland. He told us that the winter in Estonia had been mild and wet, with the midsummer weekend, June 23rd, the national holiday, a washout with 81mm of rain! We could now see why everything had seemed so lush.

Day 3 July 8th Viru Bog

With most of the rain falling in the night, the morning was quiet, still, but cloudy. We left at 9am, and after a quick stop in Rakvere for essentials, we drove along the flowery road verges towards

Viru Bog, in the Laahema National Park. We turned off onto a gravel track and were soon away from the main traffic and in a pine forest with sweet smelling undergrowth. In one area a host of very tall Lesser Butterfly Orchids caught the eye, with *Pyrola chlorantha* beneath, Crowberry and Cowberry. A Raven flew over and Jays squabbled in the trees. A little further on at the small car park within the forest, we walked along a path through Scots Pine with scattered fir towards Viru Bog, admiring the mini-forests of miniature reindeer lichens, numerous mosses and a very distinctive green lichen. Crested Tits called above and Great Spotted Woodpecker flew from a rotten tree. The water levels in 2008 were much higher than in 2007 and the pools at the edge of the bog were full to the brim, in one of them Bog Arum was almost submerged. A wooden boardwalk snaked onto the bog, a wonderful place of stunted pine trees, ericaceous shrubs, and boggy patches where ten species of Sphagnum moss had been recorded (at least the information board says so!). Labrador Tea, with star-like white flowers and aromatic leaves, Bog Rosemary, Heather, Cloudberry (in flower) and Crowberry were in flower or fruit, and small patches of Cranberry were covered in small pink flowers, though many had large unripe fruits. As we neared the lookout tower, some still dark peaty pools were edged with sphagnum moss on which grew Great and Round-leaved Sundew, White Beak-sedge, *Carex limosa* and the unusually shaped fruit of Rannoch Rush. A couple of Goldeneye ducks were seen by Margaret and Tree Pipit called from a nearby pine-top. From the tower the vista of the bog was amazing and one could see how this bog had developed over time from shallow lake to vegetation-filled oasis. We walked a little further on to a deep pool where Ian refound Lesser Bladderwort – sadly not in flower – another carnivorous plant. By now we were past lunchtime so we retreated to the car-park, stopping a couple of times for photos and a great view of a female Crossbill in the scope. We were soon driving to Palmse Manor, where we had lunch in the car park near convenient facilities.

We drove north-east through Kunde, towards the headland of Letipea, and along a wonderful forest road where large bunches of *Campanula latifolia* stopped us in our tracks. As we were admiring these beauties our attention drifted to a broomrape on a Creeping Thistle plant, which keyed out as - Thistle Broomrape! In the scrub we watched a Red-backed Shrike eyeing up some juicy insect, and a couple of frogs hopped off into a ditch. The road to Letipea through unmown meadows and verges was a riot of colour with bellflowers, meadowsweet, thistles, bedstraws and scabious, all jostling for room with stands of Ostrich Fern. Along the woodland rides Spotted Catsear (with leaves sans spots), *Melampyrum nemorosum*, Cabbage Thistle, Ox-eye Daisy and drifts of Wood Horsetail hid a few orchids including Common Twayblade, Common Spotted, Broad-leaved Helleborine (in bud) and a few Bird's-nest Orchid. Chaffinches, Chiffchaff and Willow Warbler called around.

As we reached the small headland where a square lighthouse stands guard over the Baltic Sea, we could see a few birds on the small rocks out at sea and a quick scan revealed a raft of Goldeneye and Tufted Duck, Common Gull, Cormorant and one or two terns. Six Grey Heron flew over and as we neared the pebbly beaches an agitated Common Sandpiper scolded us. The coastal flora here, where reed and seaweed debris had washed up, was a mixture of all sorts of interesting plants. On the lowest parts were Common Reed, *Alopecurus arundinaceus*, Saltmarsh Rush and Grass-leaved Orache and higher up Harebell, Orpine, *Androsace septentrionalis*, Field Pansy and Sea Pea were intermingled. In a sheltered bay a stand of Yellow Loosetrife and Wild Angelica grew with Sea Clubrush and between large boulders Tall Thrift (*Armeria maritima* subsp. *elongata*). Some fine but stunted Purple Loosetrife made a splash of pink against the white of the lighthouse.

Near the car we explored some moss-floored pine woodland and almost at once Ian found the One-leaved Bog Orchid (*Malaxis monophyllus*). Further in some Common Spotted Orchids were found with emerging yellow-white Birdsnest (or Dutchman's Pipe), *Monotropa hypopitys*, *Pyrola chlorantha* and more of the One-leaved Bog Orchid. The edges of the track were covered in Kidney-vetch and the attractive *Berteroa incana* was scattered amongst Hoary Cinquefoil and Lady's Bedstraw. A newly emerged female Black-tailed Skimmer showed how late things were for insects, and indeed we only saw a Large Skipper and a few Ringlet all afternoon.

We drove back to Kohala Manor past more bellflowers (Nettle-leaved, Peach-leaved, Creeping and Clustered) and another Red-backed Shrike, arriving at 6.50pm, just enough time for a hearty meal and checklist session at 7.30pm. After the session at around 10.30pm, Ian, Marrion and Margaret walked to the Horse-field to see if any Corncrake could be heard – where in 2007 Ian had heard them close by with Nightjar in the distance. Sadly we couldn't hear either so we walked towards the bridge and River Kunde the other way. We caught a few tentative first song-notes of a Thrush Nightingale down by the river, and as we walked along the riverside track, heavy with the scent of Common Valerian and Meadowsweet, we could hear the first Corncrakes in a distant unmown field, creaking to each other. The more we closed in on them the more they seemed to move further away! With some good calls heard we retreated from the mossies to the manor house, pausing briefly to see some bats (and fish) catching flies over the river.

Day 4 July 9th Oandu and the Beaver Trail

With a forecast of rain from the south, we decided to visit the area of the Lahemaa National Park near the coast where a sliver of blue sky promised better weather. The drive north-west took us through some more of the flowery grasslands and fields with bellflowers, and past marshy forests which had an understorey of Meadowsweet and Ground Elder. A few White Storks were seen here and there, usually on mown silage fields, and a Red-backed Shrike was seen in an area of Juniper scrub. We drove through Sagadi with its bright pink Manor house, arboretum with unusual sculptures and surrounding buildings, worth a stop on a rainy day.

We arrived at the small car park of the Oandu Trail, which makes a circular route through pine forest, marshy spruce forest and boggy forest, over and down old (7000 year old!) beach ridges where the path dropped steeply (11 metres the board told us) at the edge of the old Ancylus Sea, where the ice-sheets, with moraine material, and coastal erosion had formed this 'old coastline'.

The top flat area had a forest of tall slim Scot's Pine, the trunks of which which looked eerily *smoky* en masse; an effect of the bark peeling off from the top trunk leaving a gradation of pinkish orange new bark with the greyish bark below. The understorey of Bilberry (very tasty berries), Cowberry and Cow-wheat were enhanced by the range of mosses and lichens below. It was quiet and only Chiffchaff and a few distant Crossbill could be heard, with the odd call of a Great Spotted Woodpecker. Six species of woodpecker, live in the forest, so there were high hopes of seeing or hearing at least one or two of these. Over the top ridge we were soon into 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 expansa* was noted and Lady Fern was common, Oak Fern, and a bit of Interrupted Clubmoss also. Amongst the many mosses (*Polytrichum commune*,

Hylocomium splendens, *Dicranum scoparium*, *Dicranum polysetum*, *Pleurozeum schreberi* and *Ptilium crista-castrensis*) was the abundant Twinflower *Linnaea borealis*. Skullcap, Herb Paris, Alpine Enchanter's Nightshade, Chickweed Wintergreen, Wood Stitchwort and *Crepis paludosa* were all seen, and *Orthilia secunda* was flowering but the Creeping Lady's-tresses orchid was in leaf only. Crested Tit was heard, with Chaffinches, Goldcrest, Coal Tit and Wood Warbler. 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 into small streams where mini forests of Wood and Shade Horsetail added to the primeval look with Alternate-leaved Golden Saxifrage, Tufted Loosestrife, Bog Arum and some very tall Common Spotted Orchid. The upturned and blown down dead trees had impressive root plates, almost flat; the sandy soil below had caused a shallow root system, with sands exposed around the roots. A few Heath-spotted Orchids were found in a shaded area where spindly Labrador Tea, Bog Bilberry, Bogbean, Cloudberry and flowering Cranberry added another dimension to the flora, as did another area where a spring had Cowbane, Ragged Robin and Water Forget-me-not. Several fungi were seen, but not named, including a jelly-like stagshorn fungus, plenty of different bracket fungi, small crumblecap toadstools, and a bright orange mass of small 'bobbly' fungi.

Amazingly it was very mossie free, but plenty of other flies, bees and moths were on the wing, though not a single butterfly was seen! As for mammals Lynx and Bear scratch marks were pointed out by well-placed boards but of course they were not recent, though a Danish couple who we met, and had started on the trail before us, had thought they had seen fresh bear paw marks in moss! They had also reported that a Black Woodpecker nest had been seen and that they had heard and seen the adults, but despite taking us back along the path, couldn't refind the nest or see the adult birds – perhaps they had spooked them off before we got there? We did see evidence of Wild Boar diggings and plenty of damage that Elk had done to the spruces, and there were also lots of cone scales in the open with gnawed cones - Red Squirrels were here!

We arrived back at the car park after our walk, for a good packed lunch of ham and cheese wraps, just as a light shower of rain started (as Mika had told us it would rain at 2pm), but it soon eased and the sun shone, just right for our short walk on the Beaver Trail, about a mile down the road. The sign on the info board had warned us that the end of the trail was closed due to maintenance, but we managed to get to almost all the areas. Along the peaty river Altja, the beavers had constructed low dams, of small diameter trees and bushes and this had dammed the river just enough for some of the Alder trees to die back – but there were plenty of Black Woodpecker holes in these! As a consequence, the valley floor was much more open with a riot of wild flowers in the light areas, and from the top of the steep bank we could see fish making ripples, a few distant odonata, and White Wagtails taking midges. Ostrich Fern was luxuriant and around an old erratic granite boulder, in more shaded woodland, we found Oak Fern, Wood Horsetail and lovely cushions of moss. On the sunny and dry sandy bank Harebells, Sticky Catchfly and Peach-leaved Bellflower were all in bloom.

We returned to the car pausing briefly for *Pyrola chlorantha* and a fresh pile of Elk droppings (smaller than you think!) and drove down into Altja, a small coastal village where some of the well-off had small beach houses. By now the sun was out along the coast but it was showery inland and the contrast of the grey clouds and blue skies made wonderful cloudscapes. The Baltic was like a millpond, and the small bays at Altja were dotted with half-submerged granite boulders, all erratics brought over from Finland by ice in the last glaciation. The colours of these boulders on the beach

ranged from grey to green to pink, merging nicely with the blue-grey Lyme Grass and purple Tufted Vetch. Margaret spotted two female Goosanders in the water, and on a rock, busily preening, and through the scope these were stunning. Out to sea we also saw another with eight young on the water. Common Gulls were perched on rocks here and there, with the odd Common Tern, and a few Grey Heron. A Reed Warbler launched into song briefly from the reeds, and White Wagtails were ubiquitous. Marion sat for a while enjoying the scene – she had visited here last year and had wanted to return – without the busloads of people!

As we walked back we stopped to see all twelve House Martin nests on a posh beach house and also amongst them one Swallow's nest. Luckily the owners looked like they had approved of these nests – the Swallow is Estonia's national bird after all. As we readied to leave, a River Warbler, not ten feet away completely hidden by bushes, reeled its mechanical song. We drove back to Kohala along roads with lots of puddles and thanked our luck for having a dry day. More mown silage fields with storks were seen. In the evening we had a traditional Estonian meal of cheese soup (with hot peppers, which Marion managed to find first – again!), pork sausages with mash and pickled cabbage, and ice cream with strawberry sauce. After dinner Mika took Marion and Margaret around his dairy farm next door to see how Estonians do it – he now has Estonia's second largest dairy herd with 300 milkers.

Day 5 July 10th Endla Bog and Varangu Springs

A cool morning and distant heavy black clouds looked unpromising for our trip inland and south to Endla Bog, an 87km square area of bog, forest and fen, a nature reserve with a RAMSAR status (wetland site of worldwide importance). We started off towards the clouds and amazingly we drove past these and into brighter weather through mostly intensively farmed arable land between coniferous forest with some areas of rough grassland also. White Storks were seen here and there, and White Wagtails appeared to play chicken on the roadsides with us, as we sped along. We arrived at the the nature reserve headquarters at Tooma on the edge of Endla, in about an hour. We registered at the headquarters where a couple of helpful Estonian ladies showed us around some very well designed exhibits of what could be found in the reserve. A stuffed Black Stork, European Beaver, Otter and Common Crane were all placed in poses as birdsong filtered from hidden speakers. The reserve building was once a school showing people how to drain bogs and harvest the peat but now ironically it is now used to show how bogs should be preserved. We set off across the dry sandy soil of the horse farm, stopping briefly to enjoy the many Tree Sparrows perching on a dead tree and young Skylark and Swallow perching on the fence in *feed me* mode. A male Yellowhammer looked resplendent with its yellow plumage. Only one Lesser Marbled Fritillary, a Small White and a few Ringlet butterflies were around, despite the wonderful array of colourful wild flowers in the field and verge.

Over a ditch and you are into conifer woodland, where the edge of the bog begins – Lesser Butterfly Orchids and Twayblades were seen as were a few Intermediate and Serrated Wintergreen, Yellow Bird's-nest, Cloudberry in fruit and Crested Buckler-fern. Out of the woodland and the boardwalk begins to cross the large domed bog of Mannikjarve, where thousands of pine have been stunted by the hostile growing conditions of the bog, and the smallest of five large bogs in the reserve but still measures more than a kilometre in diameter. Around the narrow pools, sphagnum mats were thick

with Greater and Round-leaved Sundew, White Beak-Sedge, Rannoch Rush and Cranberry (*Vaccinium oxycoccus*). Bog Bilberry and Leatherleaf *Chamaedaphne calyculata* bushes added variety to the many ericaceous plants occupying the drier positions, such as Cowberry, Crowberry and Heather, with Bog Rosemary also. The winds from the west had now brought a little rain, and it was disappointingly lacking obvious butterflies, dragonflies or damselflies. However Margaret saw one Silver-studded Blue butterfly. As we reached the tower lookout, the rain had abated but the wind had picked up and sighting any birds other than a singing Tree Pipit and a few White Wagtails would be luck. Margaret again showed what a good birder she is by spotting a Great Grey Shrike on a pine, whilst scanning for Elk. The shrike moved around and was then joined by another – a breeding pair? – chased some juicy insect then flew past at close range to perch on the pole of a scientific equipment set-up, with good views through the scope. Marion also found a good bird - Wood Sandpiper – which puddled around a bog pool. With a flurry of good sightings we started back passing some fresh Elk prints, and entered the conifer wood again, where we had a good view of a Crested Tit and a male Great Spotted Woodpecker. However the nasal, clear birdcall we had tried to identify evaded us.

We arrived back at the car park for our lunch – curried meat wraps, bananas and snickers – during which the weather improved dramatically, with blue sky and warm winds. We retraced our steps back along the sandy track through the horse farm, accompanied by the playful black and white resident cat, which was dive-bombed by adult Swallows when it was walking the fence-top, and turned south towards Mannikjarve Lake. The fringes had Milk-parsley, Bog Arum, Marsh Fern, Marsh Cinquefoil and in the lake Yellow Water-lily. A couple of Common Tern patrolled the water. The track takes a south-easterly route over a ditch and suddenly a woodland flora, completely different to what we had seen before, is found where numerous interesting northern species of basic woodland are found. Asarabacca with rounded shining leaves mingled with Hepatica, Dog's Mercury, Lungwort, Yellow Archangel, Baneberry, Columbine and Herb Paris, under a shrub layer of coppiced Hazel, Fly Honeysuckle, Bird Cherry, Mezereon, Small-leaved Lime and birch, with a few pine and spruce above. The Perennial Honesty *Lunaria rediviva* was just about still in flower, and *Geum macrophyllum* was in fruit. Signs of fresh Wild Boar were everywhere and this sparked a debate on how valuable Wild Boar would be as a component of the woodland fauna in the British Isles! We walked back to the car through fields, pausing briefly to pick a few sour cherries on a tree, and see the small lake near the visitor's centre, where the tussock form of Common Sedge *Carex nigra* var. *junceae* was growing beside the water. As we drove out of the track, a Hazel Grouse was sitting in the warm road and gave us enough time to see its richly coloured markings.

We drove about thirty kilometres back north to the springs at Varangu, site of a nature reserve next to an old manor house undergoing a slow renovation. We walked down past a beautiful old wooden barn through some fine old oaks to a channel of clear water. As we went to cross the bridge an elderly Estonian couple came down to check us out – when we said we were English they smiled and let us go on our way. They were right to be suspicious as this reserve has a number of fruiting Lady's Slipper Orchids, vulnerable to collecting by unscrupulous people. We headed for these and thankfully all seemed intact and well on the way to scattering seed. Many *Pyrola media* and *Orthilia secunda* were seen, but the One-flowered Wintergreen evaded detection. Ian and Margaret startled an owl which flew from a tree – a light speckled grey-chocolate brown, it was most likely a Tengmalm's Owl, only slightly smaller than Tawny. A few tracks across the small wooded island we were walking across appeared to be from Beaver. Trees had been gnawed by Beaver, but no fresh evidence could be seen – maybe mechanical dredging first seen here in 2005 destroyed the

beaver dams? It was feasible as the clear water springs would be lost if any Beaver would make shallow lakes downstream. We went to see the deep Endika spring, and this was impressively clear blue. The waters from the underground limestone flowed gently through the forest and on the banks a rich fen flora had developed with Common Butterwort, Early Marsh Orchid, Marsh Lousewort, Marsh Stitchwort, Milk-parsley (with a Swallowtail larvae feeding) *Malaxis monophyllos* and several fine sedges – *Carex lepidocarpa*, *Carex rhyncophysa*, *Carex vaginata*, *Carex disticha* and in the water itself the aptly named *Carex aquatilis*. An emerald dragonfly (possibly Northern Emerald) flew back and forth over the calm water. Marion found a Common Frog which jumped in the water and also some Bird's-nest Orchid. We returned to the car and were about to leave when the owner of Varangu Manor House passed by and said we could go in to see what renovation was going on. The impressive manor house had had a shiny new zinc roof (a traditional roof material in the past for these manor houses), but everything below was in a state of early renovation. We wandered around the rooms marvelling at the amount of work yet to be done, but it looked worth it. As we were almost about to leave, again! Ian spotted a distant group of flying Common Crane, about 50 together. These flew down behind a forest so we made our way back to Kohala, pausing briefly to watch a Fox patrolling a field.

We arrived only 15 minutes before our dinner at 7.30pm, so we dropped our bags and after a quick freshen up were tucking into pork chops and chips, a strawberry flan and coffee, followed by checklists. Some of us who explored Kohala after this (tempting, as now a high pressure had given us warm southerly winds with clear sky) found Corncrake calling in the field between the River Kunde and the farm, distant Common Crane calls, Grasshopper Warbler reeling, Whinchat calling and a brief burst of Thrush Nightingale song by the river (which a Green Sandpiper flew along); a nice end to our four nights at this relaxing place.

Day 6 July 11th To Matsalu

A blue sky promised fine weather for our journey passing Tallinn and south-westwards towards Matsalu. We said our farewells to Mika, Karin and family (and George the hungry Labrador) and the Kohala Manor and drove westwards. Our first stop was at Palmse Manor for a quick look around an intact manor (in contrast with the Varangu Manor the day before). The bright yellow manor was not open at 9.40am (it opened at 10am), so we went in and had a look at the gardens first and then the manor after 10am. The Manor in the sunshine looked considerably better than in 2007 when the group abandoned a rainy day at Viru Bog to visit it. A family of Goldeneye was seen on the lake by Margaret and Ian heard Corncrake in the flowery meadow by the carpark, and all saw the wonderful White Stork nest on a chimney stack of the shop – three well grown young and an adult, with bills clacked occasionally. By 11am the place was jumping with tourists – mostly from the coaches that pulled up one after one! We definitely chose the right time to visit. It really is worth a visit just to get a little bit of Estonian history.

We drove towards Tallinn and despite taking a detour got on the road to Parnu then Haapsulu. We turned on the road to Virtsu about thirty kilometres northeast of Matsalu, but as hunger was calling, we stopped by the roadside near Silli where a slow-moving river with an old bridge over it was chosen for the picnic spot. In the water grew plentiful Greater Spearwort and Greater Water Parsnip, both British rarities, and the latter in very good condition. A Common Blue Damselfly was

joined by a Beautiful Demoiselle and a Large Red Damselfly, and we watched two Lapwings attempting to mob and lure Common Gulls away from a nest (or young) in a weedy arable field across the road. We drove to the Matsalu Nature Reserve HQ, seeing a Marsh Harrier and a Buzzard briefly, and stopped for a comfort stop and a look around the museum and information centre. This centre is excellently laid out with well presented exhibits, examples of the bird species of the park, and a lot more of interest. Sadly we couldn't stay longer but saw Spotted Flycatcher and a Small Tortoiseshell butterfly in the grounds.

Then we moved on the road to Suitsu and its tower, and stopped at a small area of calcareous fen grassland, where Fragrant Orchids (including a white form) were almost two feet tall! The small area was stuffed with choice species such as Marsh Helleborine, *Carex davalliana* (now extinct in the British Isles), Irish Fleabane, Adder's-tongue Fern, Dropwort, *Melampyrum nemorosum*, and *Oenanthe aquatica* in a ditch. A Chestnut Heath and Swallowtail Butterfly flew by and Margaret spotted a Black Stork flying which was seen again at length a little later. A Yellowhammer sang from a small shrub and three Ravens flew over. We drove further and arrived at a wide river where we could see the tower. This area had been good for butterflies in previous years, but maybe because of the dry rather than wet spring, or the recent rain, they were few and far between, despite the lovely sunshine. As we climbed the tower we saw a single Silver-washed Fritillary. From the top of the tower the view across the flat reedbeds, pastures and woodland was impressive, and we saw two Common Cranes in a field, many Mute Swans on the bay a long way off, and Margaret, a Red Deer near a wood.

We drove east then north to the Altmoisa Hotel, at Tuuru, near Panga on the northern *arm* of Matsalu Bay. As we arrived the staff and friends were busily preparing for a 'strawberry festival' the next day where they were expecting a thousand people! We soon were allocated our comfortable rooms, and had dinner at 6.30pm, which was a delicious Estonian ham and potato porridge, fresh salad vegetables in sour cream and herbs, and a delicious strawberry ice-cream. As it was a lovely evening, and though a bank of cloud heading our way promised rain, we walked along the narrow boardwalk (missing the numerous Common Lizards basking in the last of the evening sunshine) through a small area of calcareous grassland and reeds towards the coast and the small bay of Topu Laht. There were more Fragrant Orchids in the field with many Musk Orchid, *Ononis arvensis* and a few Military Orchid, which were over. We also saw a Red-backed Shrike. As we reached the small *tower* (no more than the top of a small hut you walk up steps to) we were scolded by a Redshank. The shallow bay (Topu Laht) was scanned and we could see several Grey Heron, Green Sandpiper, Wigeon, Shoveler, Ringed Plover, a Black-tailed Godwit, Common and Black-headed Gull, Greylag Goose, Lapwing and Oystercatcher. Wheatear flew onto rocks, Meadow Pipit called in the low grassy areas behind us and a Reed Warbler in reeds. We explored the lower shore, away from the birds, and found Seaside Centaury, Glasswort, Sea Aster, lots of Irish Fleabane and in grassy area just above high tide, *Dianthus superbus*. It was still early at 9pm, but as we wanted to start early the next day, we moved off to the hotel, but were delayed by the sight of nine Common Crane flying in and then settling and then a lovely view of a Short-eared Owl quartering (quite high at first) the reeds and grassland. Margaret heard a Corncrake briefly in the flowery meadow by the hotel where Whinchats were perched on tall grasses. A packed evening!

Day 7 July 12th Saaremaa

With the possibility of a fully booked ferry to Saaremaa from Virtsu on Saturday we had a very early breakfast and drove to Virtsu to catch the 8am ferry. During the night the hotel had been busy right up to midnight getting everything ready for the strawberry festival, which included a noisy tractor and mower cutting the meadows ready for the car parking - until 2.30am! Luckily with double-glazing we managed to get some sleep. Margaret heard many Cranes calling early in the morning. The drive to Virtsu was quiet as the gathering clouds began to spit with rain. We were lucky to get a space on the ferry and were soon on our way to Saaremaa Island via the small island of Muhu. From the ferry we could see many Cormorant, a Great Black-backed Gull, Tufted Duck and Goosander. We were soon on Muhu and stopped for a quick drink at the small café at the port. A Red-berried Elder was laden with fruit and Mute Swans showed off their cygnets in the water. With the weather worsening we drove across Muhu and onto a causeway linking it to Saaremaa over the Vaike Van Strait. There were quite a few birds around on the water so we stopped to see Little Grebe, Great-crested Grebe, Goldeneye, Tufted Duck, Gadwall, and another Goosander with young, as Reed and Great Reed Warbler sang in the large expanses of reedbed. A pair of Reed Buntings was also seen. The roadside edges were a colourful mix of Greater Knapweed, Chicory, Basil-thyme, Biting Stonecrop and bellflowers, with Sticky Groundsel frequent around the strandline.

As it was early we had plenty of time to get to our hotel at Loona Mois in the far west of Saaremaa, so we explored some new sites on the way. With the group's cultural appetite not quite filled, we made for one of Estonia's oldest churches at Karja, where some of the medieval stone-carvings are the best in Estonia. The early gothic church, though looking a little tired (it was over 800 years old!), was interesting, with: pagan symbols painted on the ceiling above the altar (pagan and Christian beliefs mixed here for a while after a meteorite fell in nearby Kaali); a carving of the crucifixion; and the carving of a fool. The grounds were ringed by a wonderfully mossy stone wall made up of small rounded granite boulders, and the rain had brought out large Roman Snails and a Toad. Before leaving we watched a Goldfinch collecting dandelion flowers, presumably for young. Not far from the church were the Angla windmills. By now the rain had eased and the sun was shining. This was a touristy spot (5 cars!) where several different windmills had been grouped in an open-air museum. We walked up inside the largest Dutch-style one fascinated by the workings of such a construction, but also wondering what made the twiggy nest up the top out of reach. Bits of plastic, silver material, beach litter and twigs all made up the debris beneath, and Jackdaw was suggested. Before we left we watched young Wheatear and White Wagtail calling for food on a pile of logs.

We didn't get far along the road south towards Kuressaare, before admiring verges full of Common and Long-headed Poppies, and along the edge of one wheat/pea field a few Cornflowers were seen. This being Estonia's national flower we had to stop – fields full of cornflower are now a rare sight in the agriculturally intensifying Estonia, so we made do with just a few. As we explored the arable margins we found a very rich plant assemblage and in addition we found Forked Larkspur, Greenfield Speedwell, Henbit Deadnettle, Prickly Poppy, Scarlet Pimpernel, Bugloss and Yellow Chamomile. Rather poignant was the fact that as we were enjoying seeing these arable flowers a funeral procession gathered and departed from the farmhouse across the field – one wondered whether the farmer was no longer there to have sprayed his fields with weedkiller.

By now we were getting hungry so we drove south through a pine/spruce forested landscape not dissimilar to the Breckland that Marion and Margaret knew, looking for a suitable picnic spot. At the junction of the road to Kaali a small pull-in was seen, and it was a very fortuitous spot to choose. After our picnic we explored the small track into the forest. Orchids were abundant with both Greater and Lesser Butterfly Orchids, huge Dark-red Helleborines, Fragrant Orchids, Common Spotted Orchids and one fruiting plant of a Lady's Slipper. Masses of Serrated and Round-leaved Wintergreens were scattered through the forest floor and a big patch of Danzig Vetch was admired. A Nickerl's Fritillary, Chestnut Heath and Common Blue were flying in the now hot, humid conditions, and Barred Warbler sang in the trees with Willow Tits moving through.

As we made our way to Loona Mois we passed roadsides full of bellflowers – mostly Peach-leaved and Clustered, but also Harebells – mixed with the pink Bloody Cranesbill in extensive stands. With it still a little early we had a look in Kihelkonna church, where birch leaves had been placed over the entrance and in the church itself. It was undergoing some minor restoration and looked in need of it! A local lady church warden attempted to communicate to us in a mix of German and Italian (we almost understood almost all of what she said), and let us walk the nine sets of steps up the narrow red-steepled belltower, past stained glass windows of butterflies and leaves, to under the bells. From the top you could see the island of Vilsandi and much of the surrounding forested land as well as the small village of Kihelkonna below. We also explored the small hill beside the church where a separate belltower (without bell) was situated, an arrangement rare in Estonia. The meadow around the belltower was full of more bellflowers and an old path could be picked out by the line of flowering Hoary Plantain. A large ant's nest was in the field and when a bellflower head was placed on top it streaked reddish-purple almost instantly from the formic acid squirted from the defending ants. By now it was mid-afternoon and we were all very tired from the early start and long drive so we drove to Loona Mois. The tree-avenued drive was full of Nettle-leaved Bellflower, and as we approached we could see many cars. As we swung around to the front the entrance was full of people posing for a photo! It transpired that a family get-together had taken place and we caught the end of it. Two sisters had dressed in colourful and traditional Saaremaa costumes and told us a little of what the costumes meant – more culture! We eventually settled in and had three hours before dinner. Dinner included some of what the Estonian family had, and included smoked Turbot (very bony!!) sourced from the sea at Papisaae, near Kihelkonna, potato salad and homemade cakes. With the evening still bright we took an after-dinner walk along the road west of Loona Mois, through more bellflower filled hay fields, and saw young Whinchat and heard Common Crane in the distance.

Day 8 July 13th Tagamõisa Peninsula

With a cloudy start the day did not look promising. After a good breakfast the clouds dissolved and the blue sky appeared, with temperatures rising. We drove through Kihelkonna down the dusty road through pine forest and past sedge-fens and shallow lakes, over the Oju River, where we stopped for some fine and tall Red Helleborine plants in perfect condition. Dark Red Helleborine, Fragrant Orchid, Common Spotted and Greater Butterfly Orchids were all growing nearby, with a mass of colourful flowers. A ditch was thick with Marsh Helleborines, as well as numerous sedges, Common Centaury and *Rhinanthus serotinus*. We stopped in the sunshine and watched a White Admiral narrowly avoiding certain death by dragonfly (Black-tailed Skimmers mostly with some

hawkers around), and Speckled Wood and Dark Green Fritillary were also on the wing, and Margaret saw a Brimstone butterfly (not surprising as Alder Buckthorn its foodplant was very common in the marshy woodland). A Black-veined White had wings as if constructed from stained glass (without the colour). We stopped where a wonderfully rich shallow lake had been encroached by Saw-sedge, with Broad-leaved Cotton-grass resplendent as tall spikes with cottony tassels blowing in the wind. Cranes were heard nearby and a beautiful Honey Buzzard flew over, giving us a good view of its pale underside. In the lake lots of stoneworts (*Chara* spp.) could be seen, and as we followed the trail around the edge we realised that the Elk had beaten us to it – the fresh prints were there with broken vegetation and droppings (surprisingly small for a large animal), which moved Marion thinking that we were in the footsteps of Elk. As we approached a little island through sedges, Red-rattle, Marsh Marigold and Marsh Cinquefoil, we searched for Fen Orchid in shorter vegetation – we found a few perfectly fresh flowering plants! We also looked at another similar area nearby but turned back when the water became too deep to negotiate.

We then moved up on to the west side of the Tagamõisa Peninsula along the road to Harilaid Point. Dark Red Helleborines lined the roads, richly colourful with an array of flowers, and eventually reached a dry area of old beach ridges with limestone stones. Juniper bushes were dotted around, and between them the bare areas had Carline Thistle, Small Scabious, Squinancywort, Greater Knapweed, White and Biting Stonecrop, and a few Pyramidal Orchids. We found at least three of these orchids lying on the ground, without their tubers, apparently dug out by an animal with a precision touch – possibly Common Crane? Ian had seen these birds in a wooded meadow in Gotland in 2007, near similar discarded orchid flowers, almost caught in the act of digging up the starchy orchid tubers. Perhaps these Estonian Cranes do the same? As we returned to the car a Swallowtail butterfly sailed by and we had close views of its wonderful yellow and black markings. Just up the road we stopped at a shallow seasonally inundated area, of short *sedgey* vegetation between alvar (or flat dry limestone pavement), a bit like a dune slack. No water was present in the depression but the zones of depths of water when water is present was picked out by the vegetation types – Bloody Cranesbill, Angular Solomon's Seal and Herb Paris on the dry areas above the water with Irish Fleabane, Silverweed, Creeping Cinquefoil and Water Germander on the next level with *Scutellaria hastifolia* and Lesser Spearwort in the next zone with Marsh Speedwell, *Veronica longifolia* and various sedges, rushes and grasses. A large patch of Marsh Spurge (some shoots had been eaten – presumably deer?) had Marsh Pea flowers entangled amongst it, and *Thalictrum minus* and *Cnidium dubium* were also found. With lunchtime looming we took our picnic in the shade of some trees, and snacked whilst enjoying the fritillary butterflies flying by (Nickerl's and Dark Green).

Further along the road we joined the main dusty and pot-holed track towards Harilaid Peninsula at the tip of the Tagamõisa Peninsula. One area near planted oaks and birch was rich in butterflies with Nickerl's, Small Pearl-bordered and Lesser Marbled Fritillaries, Geranium Argus, Ringlet, Common Blue and one which looked at first like Marsh Fritillary. On closer inspection it had a dark brown basal clour with rich orange markings – it was a Scarce Fritillary *Euphydryas maturna* - a rare and declining species in Europe, and one which we were lucky to see.

Then it was on to a little stream near a rather authentic deserted woodland summer house. Under the pines in sandy soil Umbellate Wintergreen *Chimaphila umbellata* was in perfect bloom, with Serrated Wintergreen *Orthilia secunda*, and masses of flowering One-flowered Wintergreen *Monenses uniflora*, a plant that had eluded us in Lahemaa. The curious Yellow Bird's-nest was

unfurling against last year's fruiting stalks, and Lesser and Greater Butterfly Orchids were scattered with more Dark Red Hellborines.

We drove along the road to the start of the Harilaid Peninsula (stopping to pick up a dead White Admiral butterfly from the road) where we parked up and walked down to the beach. Along the sandy track, which was still damp from overnight rain and or heavy dew, Knotted Pearlwort and Seaside Centaury grew from the sand. Masses of blue Harebell, purple Breckland Thyme and yellow Lady's-bedstraw grew with crusty lichen on the fixed dunes, with thousands of *Pulsatilla pratensis* plants, their seed-heads, all fluffy in the sun. Nearer the beach, on more mobile sand dunes, Sea Holly, Lyme Grass and Wormwood grew amongst the Marram Grass, with Prickly Saltwort, Sand Couch, Grass-leaved Orache and Sea Sandwort growing along the strandline. A Ringed Plover and White Wagtails scuttled along the beach debris, where a few small silvery fish had washed up, and gulls made up the rest of the birds seen. We walked across the dunes to the other side passing colourful displays of Harebell, thyme and bedstraw, where some *Rosa rugosa* had become established, and a few clumps of Sheep's-bit grew on a small ridge. We potted along the beach, where some marvellously coloured pebbles were found in reds, greens, greys and whites, some with bands, some with sparkles. It was quiet for birds – nothing on the calm sea – so we returned to the car, glad that a cooling breeze had picked up. It was getting cloudier from the south – a precursor to the rain we would experience the following day!

Driving back we saw two Fox cubs in a track, quite oblivious to us, and several Wheatear and Wagtails. With an early return we had three hours to catch up with ourselves after a busy day previously. After dinner of delicious soup, salad and pancakes with ice cream, some went out to listen for Corncrake, enjoy the sunset across the bellflower meadows or chilled out with wine and other guests.

Day 9 July 14th Vilsandi Island

With rain on and off we headed north through Kihelkonna and turned down the small cobbled road that leads out to the very small port of Papisaae. It was here that the Russians picked up any wannabee defectors who thought a boat trip across the Baltic might be preferable to Stalinist Russia. As we were waiting we knocked on the door of the local smokehouse to see if we could see where they smoked the delicious turbot we had a couple of nights before. Not speaking Estonian we had some blank stares from the owner! As we waited for the boatman to pick us up to take us across to the small island reserve of Vilsandi we watched gulls on the roof of a building and a group of Barnacle Goose swim by the jetty. The small boat arrived and a typical Estonian lady, Irina the guide and wife of the boat-owner greeted us, in what was now very wet weather. As we talked about the trip over, we saw two White-tailed Eagles across the water. We mentioned about the smokehouse and her husband took us back, and with a little Estonian communication we met the owner and had a quick look inside the smokehouse – which was not quite as rustic as we first thought!

It didn't take long to get across 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 was where a truck plied a regular crossing on its taller than usual wheels – it was but a metre

deep here. Mute Swans and Common Terns were seen, but it was so wet we stayed in the covered boat. On arrival we gathered in the new visitors building – with a very green compost loo, no water to flush with but just bark chippings! – and then followed Irina across the tracks to the north of the island. Irina gave us a commentary of the history of the island, her love of it and the importance for wildlife it has. She also told us some folk tales which tickled Marion. Butterflies were lying low in the rain but we admired the orchids along the marshy track, with the regional endemic *Dactylorhiza baltica* (or *longifolia* as it is now known) and continued with Early Marsh Orchids, Lesser Butterfly Orchids and Marsh Helleborine scattered in the grass. Bellflowers were in the long grass as well as other limestone-loving plants, and as we walked into the woodland we devoured the many wild strawberries we found! In a small bay we looked for a few interesting birds but they were lying lower than the butterflies! By now it was pouring with rain, so we trudged through woodland past a small research station – very interesting experiments being undertaken here for pollution levels and how the woodland ecosystem works. We were made welcome at their farm in the middle of the island and in a small chalet warmed ourselves up beside a fire and with some brandy and coffee. Irina was great value as she had made a possibly very wet and unrewarding day into one our most interesting visits. With ourselves warmed up we walked back to the small jetty and were taken back to Papisaae. It was still wet so we returned to the Loona Manor, briefly stopping to get a few things to take back from the supermarket.

After dinner the weather had improved and the sun was shining. With this temptation Ian suggested a drive south of Loona Manor towards the coast through Lumanda. We turned west at Varpe and near Jogela found some wonderful marshy roadsides with big yellow-flowered *Inula* plants. As we drove along Margaret saw a Black Stork flying! We stopped the car and had a good look for a minute or two as it circled. The Danish couple we saw at Oandu were right! We drove on further and at last we saw Common Crane, two stalking close by. Through the scope they looked a little awkward, almost out of proportion, but still elegant. We savoured the view as another Red-backed Shrike looked on. We turned down a track towards the coast at Karala past some coastal houses being done up. Marion was intrigued to see sedge thatching piled next to one house, similar to thatch in her native Norfolk. We walked to the sea through some scrub and despite not seeing the birds on the coast the wet marshy coastal strip was full of interest, including hundreds of Marsh Helleborine and Musk Orchid plants. Still a bright sunny evening we explored more of the coast further west, ending up near a small bay. It was quiet but despite lack of birds it was good to be in the sunshine. We drove back along the road through Vahva, with Ian always looking for Elk, but sadly none seen. In the evening Ian listened out and again heard Corncrake in the grassy fields nearby, and the calls of Cranes as they flew over.

Day 10 July 15th Vidumae & the Tagamõisa Peninsula

We were blessed with a bright sunny morning and were soon on our way a short distance south towards Vidumae. Stopping briefly to watch some Curlew in a field, and photos of local houses and fences in the woods, Ian hoped it would warm up for butterflies. We parked up by the visitor's centre there and called in for postcards and any free info. We joined the trail that winds its way through the woodland north, nearby. It was a bit *mosquitoey* so we didn't hang around at any spot for long, pausing briefly to enjoy such varied delights as Yellow Bird's-nest, a large-leaved *Viola* in fruit and *Ranunculus cassubicus* in the same state, *Vicia sylvatica* in lovely flower, and *Pyrola*

media just going over. We walked along the path through woodland until we returned to the small meadow near the visitor centre. The weather had warmed and a few butterflies were flying including: Nickerl's, Silver-washed and High Brown Fritillaries. We picnicked under shade, and enjoyed the flowery glade setting. After lunch we walked on the trail to the south of the road through open and flower-rich woodland. With a little shelter we started seeing more butterflies – White Admiral, Geranium Argus around the Bloody Cranesbills, Lesser Marbled Fritillary and at last a few Woodland Browns. This is a gorgeous brown butterfly with large biege-bordered spots on the hind and fore-wings. We heard a Nutcracker close by, but couldn't see them. Hoping for Large Tortoiseshell or a Purple Emperor, which we saw here in 2007, we continued along the track along the ridge. The pathsides were purple with the cranesbill and a large pink-flowered clover – *Trifolium alpestre*, and Ian told the group to look out for one of Estonia's rarest plants – Ivy!

With a long drive the next day and not much petrol, we decided to go to Kuressaare, the largest town in the area, long known for its spa facilities. With the prospect of an evening looking for orchids with Tina the orchid expert, we took an easy afternoon to explore a little of Kuressaare Castle. A grand structure with a moat and numerous historic buildings, we walked around it, impressed by the way the Estonians have preserved the monument. A short drive back to Loona Mois and we opted for a couple of hours to relax or pack for the last day's travel.

After an early dinner we waited for Tina the orchid expert. Tina had a list of the orchids to see (there were 25 species on the list!) and Ian had done this whistlestop tour with Tina a couple of times before but it was always good to engage with Tina, a lovely lady so enthusiastic about plants and Estonia. Our grand tour of the orchid sites started not far from Kihelkonna – in pine woodland over sand. Here were many flowering Creeping-lady's Tresses, Dark Red Helleborine and Yellow Bird's-nest. Back in the cars we drove a short distance towards the Oja river. Tina stopped at the place where we had seen the Red Helleborine, and searched – it looked as though something had eaten them! - tracks of boar were everywhere - but we found one still flowering at least. We had another short trip into the Tagamõisa peninsula and through a lane we reached some wet fields which had been drained a few years before – here Tina showed us several Fen Orchids in the ditch. Further along we drove almost to the car-park at Harilaid, and stopped near the small wooden summer house. We walked past many Dark Red Helleborine in full flower through woodland towards the sea for Lesser Twayblade. It was getting moquito-y so after finding one or two, we returned to the cars. We were very near Tina's farm, near Koruse, and stopped near the entrance track. A track opposite leads to the shallow Kilijatu Lake and Tina took us along it, passing many flower species, including Twayblade, Herb Paris, Greater and Lesser Butterfly Orchids, and some last flowers of Sword-leaved Helleborine. We found Elk prints in the track and in a boggy area by the lake, there was fresh Elk dung. Tina said that if you try to look for Elk you won't see them – you usually see them unexpectedly, but usually in the early hours! Here along the lake is a very rare orchid - *Dactylorhiza curvifolia (russowii)* and scattered amongst it Musk Orchid and several Marsh Helleborines. The evening light was fading but the sunset made the rough meadows and mixed fen at Tina's farm glow golden. Here were many Fragrant, Fly, and Burnt-tip Orchids, and the marsh orchid *Dactylorhiza cruenta* amongst others. Tina is one of a few farmers left who still keeps these fen-meadows grazed: without the grazing the scrub takes hold and the variety of orchids falls. We stopped to admire the restored windmill which she showed us – a pretty picture amongst a dry meadow with more Burnt-tip Orchids. We returned to Loona Mois for an early night before the long drive the next day.

Day 11 July 16th Saaremaa to Tallinn

An early start leaving at 6.30am saw us heading back east to the mainland and thence to Tallinn. We could not miss the ferry from Saaremaa, so we didn't stop along the way. We arrived in good time and whilst waiting got a quick coffee in the small café. The weather was a grey and it was warming up considerably, and in spits and spots of rain we stayed on the ferry deck to see what was around – a few Cormorants and some swans but not much else. We drove eastwards out of Virtsu and with some time to spare went to Puhtu nature reserve. This small island had risen from the Baltic some two thousand years ago. Today the island has joined the mainland, a consequence of the rapid glacial-rebound in the area with the land rising 3mm a year. Two hundred years ago a Germanic family had come here to live and had made an English/Dutch style park of the place. The park, which has gone wild, has some big trees: one of the oaks is at least seven hundred years old. We didn't have time to explore the park and previous visits had swarms of hungry mosquitoes in the shade here! So we explored the 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! Ian looked for the extremely rare *Dactylorhiza ruthei* a species known with certainty only from this spot in Estonia and a couple of recently re-discovered populations in Germany, but the meadows had been mown and none could be seen. A few *Inula salicina* were in good flower and Reed Warbler reeled in the reeds. Not wanting to lose too much travelling time we returned to the car. We made a final flower stop not far along the road where Ian had seen German Asphodel *Tofieldia calyculata* in 2005. It was a very orchid rich roadside marsh. Marsh Helleborines were here in their thousands, with some Fragrant and Musk Orchids, but sadly no German Asphodel.

The journey continued to Tallinn airport and after a quick lunchstop and fill-up of petrol, near the airport, we were soon on our way to Gatwick.

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 previous lists as a basis and adds to it. Species not seen in 2008 are in square brackets [eg.].

Summary of Locations

Day 1	July 6 th	Arrival
Day 2	July 7 th	Tallinn to Kohala; Kohala Manor
Day 3	July 8 th	Lahemaa –Viru Bog; Letipea
Day 4	July 9 th	Lahemaa – Oandu and the Beaver Trail and Altja
Day 5	July 10 th	Endla Bog and Varangu Springs
Day 6	July 11 th	To Matsalu; Altmoisa at Tuuru and Topu Laht
Day 7	July 12 th	Saaremaa: Vaike Vain Strait; Karja Kirke; Angla windmills; Kaali, north of; Kihelkonna Kirke
Day 8	July 13 th	Saaremaa: Tagamõisa Peninsula
Day 9	July 14 th	Saaremaa: Vilsandi Island; south of Loona Manor
Day 10	July 15 th	Saaremaa: Vidumae; Kuressaare; Tagamõisa Peninsula
Day 11	July 16 th	Saaremaa to Tallinn

Pteridophyta

Lycopodiaceae

Lycopodium annotinum
[*Lycopodium clavatum*
Huperzia selago

Interrupted Clubmoss
Stagshorn Clubmoss
Fir Clubmoss

Widespread in Lahemaa
Scattered; Viru Bog 2004, 2005]
Scattered records]

Equisetaceae

Equisetum arvense
Equisetum pratense
Equisetum palustre

Field Horsetail
Shade Horsetail
Marsh Horsetail

Common
Common
Widespread - Kohala and
on Saaremaa

Equisetum fluviatile
Equisetum sylvaticum
[*Equisetum hyemale*
[*Equisetum scirpioides*

Water Horsetail
Wood Horsetail
Rough Horsetail

Common in aquatic habitats
Common, Oandu
Widespread. Saaremaa; 2004]
Rare in Estonia. Saaremaa;
2004]

Equisetum variegatum

Quite common on Saaremaa

Ophioglossaceae

Ophioglossum vulgatum
[*Botrychium lunaria*

Adder’s-Tongue Fern
Moonwort

Matsalu
Scattered – east and west; 2004,
2005]

Hypolepidaceae

Pteridium aquilinum Bracken Widespread and common

Thelypteridaceae

Phegopteris connectilis Beech Fern Oandu
Thelypteris palustris Marsh Fern Endla Bog, beside lake

Athyriaceae

Athyrium filix-femina Lady Fern Widespread, scattered
 [*Cystopteris fragilis* Brittle Bladder Fern Scattered records; Kohala 2004]
Matteucia struthiopteris Ostrich Fern Widespread, especially near
 Letipea
Gymnocarpium dryopteris Oak Fern Oandu; Endla Bog

Aspidiaceae

Dryopteris filix-mas Male Fern Widespread, especially on
 Saaremaa
Dryopteris expansa Northern Buckler Fern Oandu
Dryopteris cristata Crested Buckler Fern Endla, in marshy wood
Dryopteris carthusiana Narrow Buckler-fern Scattered in marshy woodland
Dryopteris dilatata Broad Buckler Fern 2005 Tagamõisa Peninsula

Polypodiaceae

Polypodium vulgare Common Polypody Scattered records

Spermatophyta

Gymnospermae

Pinaceae

Picea abies Norway Spruce Dominant over extensive areas
Pinus sylvestris Scots Pine Dominant over extensive areas
Larix decidua Larch Near Kohala

Cupressaceae

Juniperus communis Juniper Widespread and very common

Taxacaceae

[*Taxus baccata* Yew 2004. Tagamõisa Peninsula]

Salicaceae

Salix pentandra Bay Willow Kohala
Salix fragilis Crack Willow Kohala
 [*Salix triandra* Almond Willow]
 [*Salix myrsinifolia* Dark-leaved Willow]
Salix caprea Goat Willow Widespread
Salix cinerea Grey Willow Widespread

<i>Salix aurita</i>	Eared Willow	Possibly this near Matsalu
[<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>		Widespread
<i>Salix alba</i>	White Willow	Widespread
<i>Populus tremula</i>	Aspen	Widespread and often co-dominant
<i>Myricaceae</i>		
<i>Myrica gale</i>	Bog Myrtle	Tagamõisa Peninsula
<i>Betulaceae</i>		
<i>Betula pendula</i>	Silver Birch	Widespread and often co-dominant
<i>Betula pubescens</i>	Downy Birch	Widespread and very common
<i>Betula nana</i>	Dwarf Birch	Local in bogs, e.g. Viru Bog
<i>Alnus glutinosa</i>	Alder	Widespread
<i>Alnus incana</i>	Grey Alder	Widespread
<i>Corylaceae</i>		
<i>Corylus avellana</i>	Hazel	Widespread
<i>Fagaceae</i>		
<i>Quercus robur</i>	Pedunculate Oak	Widespread
<i>Ulmaceae</i>		
<i>Ulmus glabra</i>	Wych Elm	Widespread
<i>Cannabaceae</i>		
<i>Humulus lupulus</i>	Hop	Scattered records
<i>Urticaceae</i>		
<i>Urtica dioica</i>	Common Nettle	Widespread
<i>Urtica galeopsifolia</i>	Fen Nettle	Beaver Trail
[<i>Urtica urens</i>	Annual Nettle	Widespread]
<i>Polygonaceae</i>		
<i>Polygonum aviculare</i>	Knotgrass	Widespread
[<i>Polygonum amphibium</i>	Amphibious Bistort	Noted in some ponds]
[<i>Polygonum lapathifolium</i>	Pale Persicaria	Kohala]
<i>Polygonum persicaria</i>	Redshank	Scattered
<i>Fallopia convolvulus</i>	Black Bindweed	Near Angla
<i>Fallopia sachalinensis</i>	Giant Knotweed	Kuressaare Castle
<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	Kohala
<i>Rumex obtusifolius</i>	Broad-leaved Dock	Widespread
<i>Rumex thyrsoiflorus</i>		Scattered
 <i>Chenopodiaceae</i>		
<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 sueticum</i>	Green Goosefoot	Altja
<i>Chenopodium urbicum</i>	Upright Goosefoot	Kuressaare
<i>Atriplex littoralis</i>	Grass-leaved Orache	Scattered on coasts
<i>Atriplex prostrata</i>	Spear-leaved Orache	Scattered
<i>Salicornia europaea</i>	Glasswort	Tagamõisa and Matsalu
<i>Salsola kali</i>	Prickly Saltwort	Harilaid, Tagamõisa Peninsula
<i>Suaeda maritima</i>	Annual Seablite	Vilsandi
 <i>Caryophyllaceae</i>		
<i>Moehringia trinervia</i>	Three-veined Sandwort	Oandu
<i>Honkenya peploides</i>	Sea Sandwort	Coastal, scattered
<i>Stellaria media</i>	Common Chickweed	Widespread
<i>Stellaria graminea</i>	Lesser Stitchwort	Common
<i>Stellaria holostea</i>	Greater Stitchwort	Scattered in Lahemaa
<i>Stellaria palustre</i>	Marsh Stitchwort	Varangu
<i>Stellaria nemorum</i>	Wood Stitchwort	Near Letipea
[<i>Holosteum umbellatum</i>	Umbellate Chickweed	2005 Puhtu?]
<i>Cerastium fontanum</i>	Common Mouse-ear	Common.
[<i>Cerastium semidecandrum</i>	Little Mouse-ear	2005 Letipea]
<i>Myosoton aquaticum</i>	Water Chickweed	Letipea
<i>Sagina nodosa</i>	Knotted Pearlwort	Tagamõisa Peninsula
<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
<i>Lychnis flos-cuculi</i>	Ragged Robin	Widespread around Lahemaa
<i>Lychnis viscaria</i>	Sticky Catchfly	Scattered
<i>Silene nutans</i>	Nottingham Catchfly	Scattered, especially Tagamõisa
<i>Silene vulgaris</i>	Bladder Campion	Widespread
<i>Silene dioica</i>	Red Campion	Scattered records near Kohala
<i>Silene latifolia</i>	White Campion	Widespread
[<i>Saponaria officinalis</i>	Soapwort	Locally common along roads]
[<i>Agrostemma githago</i>	Corncockle	2005 weedy areas by Altmoisa]
<i>Dianthus deltooides</i>	Maiden Pink	Vilsandi
<i>Dianthus superbus</i>		Near Altmoisa bird tower
 <i>Aristolochiaceae</i>		
<i>Asarum europaeum</i>	Asarabacca	Endla, in wood near reception

Nymphaeaceae

Nuphar lutea Yellow Water-Lily Locally in ponds and lakes

Ranunculaceae

[Aconitum leucostonum] 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!]

Consolida regalis Forking Larkspur Near Angla
Hepatica nobilis Hepatica Common in leaf in woods
Pulsatilla pratensis In leaf, Tagamõisa
[Pulsatilla vulgaris] Pasque Flower In seed in Vilsandi National
Park. 2004 Kohala]

Anemone trifoliata Wood Anemone Scattered
Anemone nemorosa Oandu
Anemone ranunculoides Endla, in wood near reception

Actaea spicata Baneberry 2005 in leaf Puhtu Mets]
[Trollius europaeus] Globeflower Scattered
Caltha palustris Marsh Marigold Widespread

Ranunculus acris Meadow Buttercup Scattered, especially in eas
Ranunculus auricomus Goldilocks Around Kohala
Ranunculus repens Creeping Buttercup Scattered, on Tagamõisa
Ranunculus flammula Lesser Spearwort Near Silli between Tallinn and
Ranunculus lingua Greater Spearwort Virtsu

[Ranunculus ophioglossifolius] Adder's-Tongue Spearwort 2004. Just the one plant seen
near Matsalu]

Ranunculus sceleratus Celery-leaved Buttercup Kohala
Ranunculus cassubicus In leaf, Vidumae

Ranunculus polyanthemos Multiflowered Buttercup Scattered records
[Ranunculus nemorosus] 2005 in leaf Puhtu Mets]
[Ranunculus trichophyllus] Thread-leaved Water Local in aquatic habitats. 2004
Crowfoot even noted in the sea at Virtsu!]

Ranunculus baudotii Brackish Water Crowfoot Near Altmõisa bird tower
[Ranunculus aquatilis] Water Crowfoot Common 'at sea' between
Vilsandi and land]

Aquilegia vulgaris Common Columbine Saaremaa, scattered
Thalictrum flavum Common Meadow-rue Scattered, in field at Kohala
Thalictrum simplex Small Meadow-rue Tagamõisa Peninsula

Papaveraceae

Chelidonium majus Greater Celandine Widespread
Papaver argemone Prickly Poppy Near Angla

<i>Papaver dubium</i>	Long-headed Poppy	Scattered
<i>Papaver rhoeas</i>	Corn Poppy	Widespread
<i>Berberidaceae</i>		
<i>Berberis vulgaris</i>	Barberry	Puhtu Mets
<i>Fumariaceae</i>		
<i>Fumaria officinalis</i>	Common Fumitory	Scattered, near Angla
<i>Cruciferae</i>		
<i>Crambe maritima</i>	Sea Kale	Vilsandi
[<i>Sinapis arvensis</i>]	Charlock	2004. Varangu]
<i>Cardamine bulbifera</i>	Coralroot Bittercress	Vidumae
[<i>Cardamine amara</i>]	Large Bittercress	2005 river by the Beaver Trail]
<i>Bunias orientalis</i>	Warty Cabbage	Widespread
<i>Lunaria rediviva</i>	Perennial Honesty	Endla, in wood near reception.
<i>Arabia glabra</i>	Tower Mustard	Altja
<i>Arabis hirsuta</i>	Hairy Rockcress	Tagamõisa and near
[<i>Neslia paniculata</i>]	Ball Mustard	Widespread]
<i>Capsella bursa-pastoris</i>	Shepherd's Purse	Common
<i>Lepidium latifolium</i>	Dittander	Vilsandi
<i>Cakile maritima maritima</i>	Sea Rocket	Tagamõisa
<i>Cakile maritima baltica</i>		Tagamõisa
[<i>Sisymbrium altissimum</i>]		2005 Vilsandi]
[<i>Barbarea stricta</i>]		2005 Varangu]
<i>Barbarea vulgaris</i>	Common Wintercress	Saaremaa
[<i>Rorippa palustris</i>]		2005 scattered]
<i>Erysimum cheiranthoides</i>	Treacle-Mustard	Near Angla
<i>Thlaspi arvense</i>	Field Pennycress	Near Angla
<i>Berteroa incana</i>	Hoary Alison	Scattered records in east
<i>Cistaceae</i>		
<i>Helianthemum nummularium</i>	Common Rock-rose	Scattered on Saaremaa
<i>Droseraceae</i>		
<i>Drosera rotundifolia</i>	Common Sundew	Viru and Endla Bogs
<i>Drosera anglica</i>	Great Sundew	Viru and Endla Bogs
[<i>Drosera intermedia</i>]	Oblong-leaved Sundew	Very scarce at Viru Bog.]
<i>Crassulaceae</i>		
<i>Sedum telephium</i>	Orpine	Near Kohala
<i>Sedum acre</i>	Biting Stonecrop	Widespread
<i>Sedum album</i>	White Stonecrop	Scattered, especially Saaremaa
[<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] 2004. Varangu]
[<i>Sedum ewersii</i>		
Saxifragaceae		
<i>Chrysosplenium alternifolium</i>	Alternate-leaved Golden Saxifrage	Oandu
Parnassiaceae		
<i>Parnassia palustris</i>	Grass of Parnassus	Varangu and on west Saaremaa
Grossulariaceae		
<i>Ribes rubrum</i>	Redcurrant	Scattered
<i>Ribes nigrum</i>	Blackcurrant	Varangu
<i>Ribes uva-crispa</i>	Wild Gooseberry	Scattered
<i>Ribes alpinum</i>	Mountain Currant	Widespread
Rosaceae		
<i>Filipendula vulgaris</i>	Dropwort	Matsalu and Saaremaa
<i>Filipendula ulmaria</i>	Meadow Sweet	Widespread and abundant
<i>Sorbaria sorbifolia</i>		Naturalised; Kohala, Lahemaa
<i>Rubus chamaemorus</i>	Cloudberry	Common in bogs
<i>Rubus saxatilis</i>	Stone Branble	Scattered
<i>Rubus idaeus</i>	Raspberry	Scattered
[<i>Rubus nessensis</i>		2004. Locally common in east]
<i>Rubus</i> spp.	Bramble	Widespread and common
<i>Rosa rugosa</i>		On coast at Lahemaa
<i>Agrimonia eupatoria</i>	Agrimony	Widespread and common
<i>Agrimonia procera</i>	Fragrant Agrimony	Vilsandi
<i>Geum rivale</i>	Water Avens	Scattered
<i>Geum urbanum</i>	Herb Bennet	Scattered
<i>Geum macrophyllum</i>		Locally common in woods
<i>Potentilla palustris</i>	Marsh Cinquefoil	Wet areas, scattered
<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, especially Saaremaa
<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>		Tagamõisa
<i>Fragaria moschata</i>	Hautbois Strawberry	Widespread
<i>Alchemilla</i> spp.		Widespread – a critical group
[<i>Malus sylvestris</i>	Wild Apple	Common]

<i>Sorbus aucuparia</i>	Rowan	Widespread
<i>Sorbus intermedia</i>	Swedish Whitebeam	Mostly Saaremaa
[<i>Sorbus x hybrida</i>		2004. Vidumae]
<i>Cotoneaster scandinavicus</i>		Vidumae
<i>Crataegus monogyna</i>	Hawthorn	Saaremaa
<i>Prunus avium</i>	Wild Cherry	Saaremaa
<i>Prunus padus</i>	Bird Cherry	Scattered records
<i>Fabaceae</i>		
[<i>Astragalus glycyphyllus</i>	Wild Liquorice	Puhtu Mets]
<i>Lupinus polyphyllus</i>		Near Kunde
[<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
<i>Vicia sepium</i>	Bush Vetch	Scattered
<i>Vicia sylvatica</i>	Wood Vetch	Vidumae
<i>Vicia hirsuta</i>	Hairy Tare	Letipea
<i>Vicia tetrasperma</i>	Smooth Tare	Kohala
<i>Vicia cassubica</i>	Danzig Vetch	Saaremaa
<i>Lathyrus pratensis</i>	Meadow Vetchling	Widespread
[<i>Lathyrus sylvestris</i>	Narrow-leaved Everlasting	2004. Near Vidumae]
	Pea	
<i>Lathyrus vernus</i>	Spring Vetch	Endla, wood near reception
<i>Lathyrus japonicus ssp. maritimus</i>	Sea Pea	Letipea; Harilaid
<i>Lathyrus niger</i>	Black Pea	Vidumae
<i>Lathyrus palustris</i>	Marsh Pea	Tagamõisa Peninsula
<i>Galega orientalis</i>		Near Kohala
<i>Tetragonolobus maritimus</i>		Matsalu
<i>Ononis arvensis</i>		Near Altmoisä
<i>Ononis repens</i>	Common Restharrow	Local
<i>Melilotus albus</i>	White Melilot	Widespread
<i>Melilotus officinalis</i>	Ribbed Melilot	Scattered
<i>Medicago lupulina</i>	Black Medick	Scattered
<i>Medicago sativa</i>	Lucerne	Scattered
<i>Medicago sativa ssp. falcata</i>	Sickle Medick	Widespread
<i>Trifolium montanum</i>	Mountain Clover	Scattered
<i>Trifolium repens</i>	White Clover	Widespread and very common
<i>Trifolium hybridum</i>	Alsike Clover	Scattered records
<i>Trifolium fragiferum</i>	Strawberry Clover	Vilsandi
<i>Trifolium arvense</i>	Haresfoot Clover	Scattered as at Letipea
<i>Trifolium alpestre</i>	Alpine Clover	Vidumae
<i>Trifolium dubium</i>	Lesser Trefoil	Scattered
<i>Trifolium medium</i>	Zigzag Clover	Widespread

<i>Trifolium pratense</i>	Red Clover	Common
<i>Lotus corniculatus</i>	Bird's-foot Trefoil	Scattered records
<i>Anthyllis vulneraria</i>	Kidney Vetch	Scattered records
<i>Oxalidaceae</i>		
<i>Oxalis acetosella</i>	Wood Sorrel	Oandu
<i>Geraniaceae</i>		
<i>Geranium sanguineum</i>	Bloody Cranesbill	Locally common, as on Saaremaa
<i>Geranium pratense</i>	Meadow Cranesbill	Locally common
<i>Geranium pusillum</i>	Small-flowered Cranesbill	Near Angla
<i>Geranium sylvaticum</i>	Wood Cranesbill	Scattered
<i>Geranium robertianum</i>	Herb Robert	Scattered
<i>Geranium palustre</i>	Marsh Cranesbill	Kohala
<i>Erodium cicutarium</i>	Common Stork's-bill	Near Angla
<i>Linaceae</i>		
<i>Linum catharticum</i>	Purging Flax	Scattered, mostly Saaremaa
<i>Euphorbiaceae</i>		
<i>Mercurialis perennis</i>	Dog's Mercury	Endla
<i>Euphorbia helioscopia</i>	Sun Spurge	Near Angla
[<i>Euphorbia peplus</i>	Petty Spurge	2004. Kohala]
<i>Euphorbia palustris</i>	Marsh Spurge	Koruse on Tagamõisa Peninsula
<i>Euphorbia esula</i>	Leafy Spurge	Scattered
<i>Polygalaceae</i>		
<i>Polygala amarella</i>	Dwarf Milkwort	Tagamõisa Peninsula
<i>Polygala vulgaris</i>	Milkwort	Scattered
[<i>Polygala comosa</i>	Tufted Milkwort	2005 ?Kohala]
<i>Aceraceae</i>		
<i>Acer platanoides</i>	Norway Maple	Widespread
<i>Acer negundo</i>	Ashleaf Maple	Kohala
<i>Balsaminaceae</i>		
<i>Impatiens noli-tangere</i>	Touch-me-not Balsam	Locally common
<i>Impatiens parviflora</i>	Small Balsam	Locally common
<i>Celastraceae</i>		
[<i>Euonymus europaeus</i>	Spindle	Scattered records]
<i>Rhamnaceae</i>		
<i>Rhamnus catharticus</i>	Buckthorn	Vidumae

<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	Wood near Endla reception; Vidumae
<i>Plumbaginaceae</i>		
<i>Armeria maritima</i> subsp. <i>elongata</i>	Tall Thrift	Letipea
<i>Clusiaceae</i>		
<i>Hypericum montanum</i>	Mountain St John's Wort	Local. Saaremaa only
<i>Hypericum perforatum</i>	Perforate St. John's Wort	Widespread.
<i>Hypericum maculatum</i>	Imperforate St John's Wort	Scattered, Vilsandi
[<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>		Scattered
[<i>Viola uliginosa</i>		Scattered throughout in leaf]
[<i>Viola tricolor</i>	Wild Pansy	Local]
<i>Viola arvensis</i>	Field Pansy	Scattered
<i>Viola mirabilis</i>		Vidumae
<i>Lythraceae</i>		
<i>Lythrum salicaria</i>	Purple Loosestrife	Common and widespread
<i>Onagraceae</i>		
<i>Circaea alpina</i>	Alpine Enchanter's Nightshade	Oandu; Varangu
<i>Epilobium angustifolium</i>	Rosebay Willowherb	Widespread and abundant
<i>Epilobium hirsutum</i>	Great Willowherb	Scattered
[<i>Epilobium parviflorum</i>	Hoary Willowherb	2004. Scattered]
<i>Epilobium montanum</i>	Broad-leaved Willowherb	Scattered
<i>Epilobium roseum</i>	Pale Willowherb	Near Endla reception
<i>Haloragaceae</i>		
[<i>Myriophyllum spicatum</i>		2005 in the waters around Vilsandi]
<i>Hippuraceae</i>		
[<i>Hippuris vulgaris</i>		2005 Scattered]

Cornaceae

Cornus sanguinea Dogwood Widespread and common

Araliaceae

[*Hedera helix* Ivy Very rare in Estonia. Seen at Vidumae on Saaremaa]

Apiaceae

[*Hydrocotyle vulgaris* Marsh Pennywort Tagamõisa Peninsula]
Sanicula europaea Sanicle Scattered in woods; Vidumae
 [Astrantia major] Greater Masterwort 2004. Pohja Körvemaa-Maastiku-Kaitseala]
Eryngium maritimum Sea Holly Tagamõisa (Harilaid)
Anthriscus sylvestris Cow Parsley Scattered records
Pimpinella major Great Burnet Saxifrage Tagamõisa Peninsula
Pimpinella saxifraga Burnet Saxifrage Scattered
Aegopodium podagraria Ground Elder Widespread and common
Sium latifolium Greater Water Parsnip Near Silli between Tallinn and Virtsu; Kohala
 [Berula erecta] Lesser Water Parsnip 2004. South of Tallinn (Ian G – after group left). 2005 Tagamõisa Peninsula]
Aethusa cynapium Fool's Parsley Scattered on Saaremaa
Cicuta virosa Cowbane Oandu
Carum carvi Caraway Scattered
Selinum carvifolia Cambridge Milk-parsley Local, as at Varangu
Cnidium dubium Cnidium Tagamõisa Peninsula
Angelica sylvestris Angelica Common
Angelica archangelica Garden Angelica Recorded in Matsalu area
Peucedanum palustre Milk Parsley Widespread in wetlands
Oenanthe aquatica Matsalu
 [Libanotis montanum] Moon Carrot 2005 Laelatu]
Pastinaca sativa Wild Parsnip Common and widespread
Heracleum sibiricum Hogweed Local
 [Heracleum mantegazzianum] Giant Hogweed Local]
Heracleum laciniatum Large like Giant Hogweed, near Kohala
Laserpitium latifolium Broad-leaved Sermountain Vidumae
Torilis japonica Upright Hedge Parsley Scattered on Saaremaa
Daucus carota Wild Carrot Scattered, mostly on Saaremaa

Pyrolaceae

Pyrola chlorantha Green-flowered Wintergreen Scattered in Lahemaa area and on Saaremaa

Pyrola rotundifolia 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	Varangu
<i>Pyrola minor</i>	Common Wintergreen	Scattered – mostly in east.
<i>Moneses uniflora</i>	One-flowered Wintergreen	Scattered, as around Tagamõisa
<i>Chimaphila umbellata</i>	Umbellate Wintergreen	Tagamõisa Peninsula, west of Kilijatu Lake
<i>Orthilia secunda</i>	Toothed Wintergreen	Common in forests
<i>Monotropa hypopitys</i>	Yellow Birdsnest	Near Letipea; Vidumae; scattered on Tagamõisa
<i>Ericaceae</i>		
<i>Calluna vulgaris</i>	Heather	Widespread and abundant
<i>Ledum palustre</i>	Labrador Tea	Common in bogs; Viru; Endla
<i>Andromeda polifolia</i>	Bog Rosemary	Common in bogs; Viru; Endla
<i>Chamaedaphne calyculata</i>		Endla Bog
<i>Vaccinium oxycoccus</i>	Cranberry	Common in bogs; Viru; Endla
<i>Vaccinium microcarpum</i>	Small Cranberry	Common in bogs; Viru; Endla
<i>Vaccinium vitis-idaea</i>	Cowberry	Widespread, mostly in the east
<i>Vaccinium myrtillus</i>	Bilberry	Widespread, mostly in the east
<i>Vaccinium uliginosum</i>	Northern Bilberry	Widespread, around Lahemaa; Endla
<i>Arctostaphylos uva-ursi</i>	Bearberry	Widespread
<i>Empetraceae</i>		
<i>Empetrum nigrum</i>	Crowberry	Locally common
<i>Primulaceae</i>		
<i>Anagallis arvensis</i>	Scarlet Pimpernel	Saaremaa
<i>Primula veris</i>	Cowslip	Widespread, in seed locally
<i>Primula farinosa</i>	Birds-eye Primrose	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	Oandu
<i>Trientalis europaea</i>	Chickweed Wintergreen	Scattered records in east
<i>Glaux maritima</i>	Sea Milkwort	Altja, Altmoisa, Vilsandi and Tagamõisa Peninsula
<i>Androsace septentrionalis</i>		Letipea; In seed on gravel flats at end of Tagamõisa Peninsula (Harilaid)

Oleaceae

Fraxinus excelsior Ash Widespread

Gentianaceae

Centaurium littorale Seaside Centaury Saaremaa
Centaurium erythraea Common Centaury Saaremaa
Centaurium pulchellum Lesser Centaury Tagamõisa Peninsula

Menyanthaceae

Menyanthes trifoliata Bogbean Bogs in Lahemaa and Saaremaa

Asclepiadaceae

[*Vincetoxicum hirundinaria* Swallow-wort 2005 Puhtu Mets]

Rubiaceae

Asperula tinctoria Dyer's Woodruff Locally common; Saaremaa
Galium boreale Northern Bedstraw Widespread
Galium verum Lady's Bedstraw Widespread and very common
Galium x pomeranicum Hybrid between Lady's Bedstraw and Upright Bedstraw with creamy flowers at Kohala Puhtu Mets]
 [*Galium odoratum* Woodruff
Galium aparine Cleavers Scattered records
Galium album Upright Bedstraw Widespread
Galium palustre Marsh Bedstraw Common
Galium uliginosum Fen Bedstraw Kilijatu Lake

Convolvulaceae

Calystegia sepium Hedge Bindweed Scattered records
Convolvulus arvensis Field Bindweed Scattered

Boraginaceae

Echium vulgare Viper's Bugloss Common
Pulmonaria officinalis Lungwort Endla, in wood near reception
Symphytum officinalis Common Comfrey Varangu; Matsalu
Anchusa arvensis Bugloss Near Angla
Anchusa officinalis Alkanet Scattered records
Myosotis arvensis Field Forget-me-not Scattered records
Myosotis scorpioides Water Forget-me-not Common in suitable habitat
 [*Myosotis laxa* 2005 Kohala – probably this species]
 [*Lappula squarrosa* Bur Forget-me-not Tagamõisa Peninsula]

Lamiaceae

Ajuga reptans Bugle Tagamõisa Peninsula

<i>Teucrium scordium</i>	Water Germander	Near Koruse, Tagamõisa
<i>Scutellaria galericulata</i>	Scull-cap	Scattered
<i>Scutellaria hastifolia</i>	Spear-leaved Skullcap	Matsalu; 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 amplexicaule</i>	Henbit Deadnettle	Scattered, as near Angla
<i>Lamium hybridum</i>		Near Angla
<i>Lamium purpureum</i>	Red Deadnettle	Scattered
<i>Leonurus cardiaca</i> ssp. <i>villosus</i>	Motherwort	Kohala
<i>Lamiastrum galeobdolon</i>	Yellow Archangel	Oandu and wood at Endla
<i>Stachys palustris</i>	Marsh Woundwort	Widespread
<i>Stachys sylvatica</i>	Hedge Woundwort	Near Kohala
<i>Glechoma hederacea</i>	Ground Ivy	Widespread
<i>Prunella vulgaris</i>	Self-heal	Widespread
<i>Acinos arvensis</i>	Basil-Thyme	Scattered, mostly Saaremaa
<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	Seen on Saaremaa

Solanaceae

<i>Hyoscyamus niger</i>	Henbane	Kuressaare
<i>Solanum dulcamara</i>	Bittersweet	Scattered, seen in the east

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	Tagamõisa
<i>Veronica teucrium</i>	Large Speedwell	Kuressaare
<i>Veronica spicata</i>	Spiked Speedwell	Scattered
<i>Veronica officinalis</i>	Heath Speedwell	Scattered
<i>Veronica chamaedryx</i>	Germander Speedwell	Widespread
<i>Veronica arvensis</i>	Wall Speedwell	Saaremaa
<i>Veronica beccabunga</i>	Brooklime	Scattered
<i>Veronica agrestis</i>	Green Field Speedwell	Scattered
<i>Veronica anagallis-aquatica</i>	Blue Water Speedwell	Lahemaa

<i>Veronica persica</i>	Common Field Speedwell	Scattered
<i>Veronica serpyllifolia</i>	Thyme-leaved Speedwell	Kuressaare
<i>Veronica scutellata</i>	Marsh Speedwell	Saaremaa
[<i>Odontites vulgaris</i>		Widespread]
<i>Odontites littoralis</i>		Vilsandi and Tagamõisa
<i>Melampyrum pratense</i>	Common Cow-wheat	Widespread and common
<i>Melampyrum sylvaticum</i>	Small Cow-wheat	Common, mostly in the east
<i>Melampyrum arvense</i>	Field Cow-wheat	Scattered, mostly on Saaremaa
<i>Melampyrum nemorosum</i>		Widespread, locally abundant
[<i>Melampyrum cristatum</i>	Crested Cow-wheat	Tagamõisa Peninsula]
<i>Euphrasia nemorosa</i>	Wind Eyebright	Scattered, Tagamõisa Peninsula
[<i>Euphrasia rostkoviana</i>		2005 Laelatu]
<i>Pedicularis palustris</i>	Red Rattle	Endla
[<i>Pedicularis sceptrum-carolinum</i>	Moor King	Fine plants near Vidumae!]
<i>Rhinanthus minor</i>	Yellow Rattle	Scattered records
<i>Rhinanthus serotinus</i>		Scattered on Saaremaa
[<i>Rhinanthus osiliensis</i>		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!]

Orobanchaceae

[*Orobanche* sp.

A robust yellow species apparently parasitic on umbellifers seen at Pohja-Korvemaa maastiku-kaitsealu.]
2005 Laelatu]
Kunde, on *Cirsium arvense*

[*Orobanche elatior*
Orobanche reticulata

Thistle Broomrape

Lentibulariaceae

Pinguicula vulgaris
[*Pinguicula alpina*

Common Butterwort
Alpine Butterwort

In leaf on Saaremaa
2004. In leaf in the ditch by the HQ at Vidumae]

Utricularia minor

In pool by the boardwalk in Viru Bog

[*Utricularia ochroleuca*

2005 bog near Kihelkonna. This should be checked as only recorded in Latvia and Lithuania from region but had the characteristic leaflets?]
2005 bog near Kihelkonna]

[*Utricularia vulgaris*

Plantaginaceae

Plantago major

Greater Plantain

Widespread

<i>Plantago media</i>	Hoary Plantain	Widespread
<i>Plantago lanceolata</i>	Ribwort Plantain	Widespread around Kohala
<i>Plantago maritima</i>	Sea Plantain	Scattered on coasts
Caprifoliaceae		
<i>Sambucus racemosa</i>	Red-berried Elder	Widespread. Not native
<i>Sambucus nigra</i>	Elder	Scattered. Not native
<i>Viburnum opulus</i>	Guelder Rose	Scattered records
[<i>Viburnum lantana</i>	Wayfaring Tree	2004. Scattered]
<i>Lonicera xylosteum</i>	Fly Honeysuckle	Scattered
<i>Linnaea borealis</i>	Twinflower	Local in boggy forests. Very common at Oandu
Adoxaceae		
[<i>Adoxa moschatellina</i>	Moschatel	2005 scattered]
Valerianaceae		
<i>Valeriana officinalis</i>	Common Valerian	Scattered
<i>Valeriana sambucifolia</i>		Widespread
Dipsacaceae		
<i>Knautia arvensis</i>	Field Scabious	Widespread and common
<i>Succisia pratensis</i>	Devil's-bit Scabious	Scattered
<i>Scabiosa columbaria</i>	Small Scabious	Tagamõisa
Campanulaceae		
<i>Campanula rotundifolia</i>	Harebell	Widespread and common
<i>Campanula persicifolia</i>	Peach-leaved Bellflower	Widespread and common
<i>Campanula patula</i>	Spreading Bellflower	Widespread in east
<i>Campanula glomerata</i>	Clustered Bellflower	Widespread and common
<i>Campanula latifolia</i>	Giant Bellflower	Near Kunde
<i>Campanula trachelium</i>	Nettle-leaved Bellflower	Scattered, mostly on Saaremaa
<i>Campanula rapunculoides</i>	Creeping Bellflower	Widespread and common
<i>Jasione montana</i>	Sheepsbit Scabious	Tagamõisa Peninsula
Asteraceae		
[<i>Eupatorium cannabinum</i>	Hemp Agrimony	2005 Varangu]
<i>Solidago virgaurea</i>	Golden-rod	Widespread and common
<i>Bellis perennis</i>	Daisy	Widespread
<i>Aster tripolium</i>	Sea Aster	Local on coasts. Vilsandi
<i>Erigeron acer</i>	Blue Fleabane	Widespread, mostly Saaremaa
<i>Inula salicina</i>	Irish Fleabane	Matsalu and Saaremaa
<i>Antennaria dioica</i>	Mountain Everlasting	Scattered, mostly Tagamõisa
[<i>Gnaphalium uliginosum</i>		2005 Beaver Trail]
<i>Anthemis tinctoria</i>	Yellow Chamomile	Widespread
<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	Scattered on Saaremaa
<i>Artemisia maritimum</i>	Sea Wormwood	Western Saaremaa coasts, as at Vilsandi
<i>Artemisia campestris</i>	Field Wormwood	Widespread
<i>Tanacetum vulgare</i>	Tansy	Widespread
<i>Senecio jacobaea</i>	Ragwort	Scattered, mostly on Saaremaa
<i>Senecio viscosus</i>		Saaremaa
<i>Senecio vulgaris</i>	Groundsel	Widespread
<i>Tussilago farfara</i>	Coltsfoot	Widespread
<i>Petasites hybridus</i>	Butterbur	Kohala, seen in the east
[<i>Arctium lappa</i>	Greater Burdock	2004?]
<i>Arctium tomentosum</i>		Widespread
<i>Matricaria discoidea</i>	Pineapple Mayweed	Common
<i>Matricaria perforata</i>	Scentless Mayweed	Widespread
[<i>Matricaria recutita</i>		2005 Matsalu]
<i>Carlina vulgaris</i>	Carline Thistle	Tagamõisa
[<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	Scattered
<i>Cirsium palustre</i>	Marsh Thistle	Common
<i>Cirsium acaule</i>	Dwarf Thistle	Saaremaa
<i>Cirsium heterophyllum (helenium)</i>		Widespread as at Kohala
<i>Cirsium oleraceum</i>	Cabbage Thistle	Widespread and common
<i>Centaurea cyanus</i>	Cornflower	Near Angla – Estonia's national flower!
<i>Centaurea jacea</i>	Brown Knapweed	Widespread and common
<i>Centaurea phrygia</i>		Saaremaa
<i>Centaurea scabiosa</i>	Greater Knapweed	Scattered
<i>Hypochoeris maculata</i>	Spotted Cat's-ear	Scattered, as at Letipea
<i>Cichorium intybus</i>	Chicory	Roadsides on Saaremaa
[<i>Arnoseris minima</i>	Lamb's Succory	Scattered records]
<i>Tragopogon pratensis</i>	Goatsbeard	Widespread
<i>Scorzonera humilis</i>	Viper's-Grass	In fens, Saaremaa
<i>Sonchus arvensis</i>	Field Sowthistle	Matsalu and Puhtu
<i>Sonchus oleraceus</i>	Smooth Sowthistle	Kuressaare
<i>Lactuca serriola</i>	Prickly Lettuce	Kuressaare
<i>Mycelis muralis</i>	Wall Lettuce	Common
<i>Inula helenium</i>	Elecampane	Roadside south of Loona
<i>Lapsana communis</i>	Nipplewort	Scattered records
<i>Taraxacum officinale</i>	Dandelion	Widespread

<i>Leontodon hispidus</i>	Rough Hawkbit	Puhtu
[<i>Leontodon autumnalis</i>	Autumn Hawkbit	2005 Tagamõisa Peninsula]
<i>Crepis paludosa</i>	Marsh Hawk's-beard	Widespread, more so in the east
<i>Hieracium umbellatum</i>	Leafy Hawkweed	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>Stratiotes aloides</i>	Water Soldier	2005 Endla]

Scheuchzeriaceae

<i>Scheuchzeria palustris</i>	Rannoch Rush	In seed in Viru and Endla bogs
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Juncaginaceae

<i>Triglochin maritimum</i>	Sea Arrow-Grass	On coasts, as at Vilsandi Island
<i>Triglochin palustre</i>	Marsh Arrow-Grass	In fens on Saaremaa; Vilsandi

Potamogetonaceae

<i>Potamogeton natans</i>	Broad-leaved Pondweed	Near Silli, between Tallinn and Virtsu
[<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, Kohala
[<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

[Sparganium glomeratum
Sparganium erectum
[Sparganium angustifolium

Scattered records]
Scattered in Lahemaa
2005 in narrow channels behind
Endla Bog]

Liliaceae

[Allium ursinum

Ramsons

Abundant near Kunda. 2005
also Puhtu – apparently a rare
and protected species in
Estonia]

[Allium schoenoprasum

Chives

Tagamõisa Peninsula]

Allium scorodoprasum

Sand Leek

Tagamõisa Peninsula

Allium vineale

Crow Garlic

Tagamõisa Peninsula

Allium oleraceum

Field Garlic

Vilsandi Island; Kohala

Convallaria majalis

Lily of the Valley

Widespread (in leaf)

Maianthemum bifolium

May Lily

Common.

[Tofieldia calyculata

German Asphodel

2004. Tagamõisa Peninsula
2005 only near Virtsu!]

Paris quadrifolia

Herb Paris

Scattered records

Polygonatum odoratum

Angular Solomon's Seal

Saaremaa

Polygonatum multiflorum

Solomon's Seal

Puhtu

Iridaceae

Iris pseudacorus

Yellow Flag

Saaremaa

[Iris sibirica

2005 in fruit at Matsalu]

Juncaceae

Luzula pilosa

Scattered

Luzula multiflora

Widespread

Juncus gerardii

Scattered on coasts

Juncus filiformis

Thread Rush

Scattered

[Juncus balticus

2005 Tagamõisa Peninsula]

Juncus effusus

Soft Rush

Scattered

[Juncus conglomeratus

Compact Rush

Scattered]

Juncus compressus

Round-fruited Rush

Scattered

Juncus bufonius

Toad Rush

Widespread

[Juncus ranarius

2005 Tagamõisa Peninsula]

Juncus articulatus

Jointed Rush

Widespread

[Juncus bulbosus

2005 Laelatu and Vidumae]

Poaceae

Festuca arundinacea

Tall Fescue

Saaremaa

Festuca gigantea

Giant Fescue

Varangu; Beaver Trail

Festuca altissima

Wood Fescue

Scattered

Festuca ovina

Sheep's Fescue

Scattered

<i>Festuca rubra</i>	Red Fescue	Widespread
<i>Lolium perenne</i>	Perennial Ryegrass	Widespread in fields
<i>Cynosurus cristatus</i>	Crested Dog's-tail	Saaremaa
<i>Poa annua</i>	Annual Meadow-grass	Widespread in ruderal habitats
<i>Poa compressa</i>	Flattened Meadow-grass	Saaremaa
[<i>Poa nemoralis</i>		2005 Puhtu Mets]
<i>Poa trivialis</i>	Rough Meadow-grass	Widespread in damp meadows
<i>Dactylis glomerata</i>	Cocksfoot	Widespread
<i>Sesleria caerulea</i>	Blue Moor-grass	Saaremaa
<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>		Saaremaa
<i>Brachypodium sylvaticum</i>		Saaremaa
[<i>Bromus (Bromopsis) benekenii</i>		2005 Laelatu]
<i>Bromus inermis</i>	Hungarian Brome	Widespread
<i>Bromus hordeaceus</i>	Soft Brome	Saaremaa
<i>Arrhenatherum elatius</i>	False Oat-grass	Vislandi
<i>Avena fatua</i>	Wild Oat	Near Angla
<i>Trisetum flavescens</i>	Yellow Oat-grass	Near Endla
<i>Deschampsia cespitosa</i>	Tufted Hair-grass	Widespread
<i>Deschampsia flexuosa</i>	Wavy Hair-grass	Scattered
[<i>Hierochloa australis</i>	Southern Holy Grass	2004?]
[<i>Hierochloa odorata</i>	Holy Grass	2005 scattered]
<i>Anthoxanthum odoratum</i>	Sweet Vernal Grass	Scattered
[<i>Agrostis canina</i>	Velvet Bent	Laelatu Mets]
<i>Agrostis stolonifera</i>	Creeping Bent	Scattered
<i>Calamagrostis arundinacea</i>	Rough Small-reed	Scattered
<i>Calamagrostis canescens</i>	Purple Small-reed	Scattered
<i>Calamagrostis epigejos</i>	Wood Small-reed	Saaremaa
<i>Phleum bertolonii</i>		Widespread
<i>Phleum pratense</i>	Timothy	Widespread
<i>Alopecurus arundinaceus</i>		Letipea, Altja, Vilsandi
[<i>Alopecurus geniculatus</i>	Marsh Foxtail	2005 scattered]
<i>Alopecurus pratensis</i>	Meadow Foxtail	Scattered
[<i>Hordeum jubatum</i>		Tagamõisa Peninsula]
<i>Elytrigia juncea</i> ssp. <i>boreoatlantica</i>	Sand Couch	Harilaid on Tagamõisa
<i>Elytrigia repens</i>	Couch	Widespread
<i>Elymus caninus</i>	Bearded Couch	Varangu
<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	2004?]
<i>Helictotrichon pratense</i>		Widespread
<i>Leymus arenarius</i>	Lyme Grass	Scattered on coasts

Araceae

Calla palustris Bog Arum Scattered in bogs, as at Oandu
 [*Acorus calamus*] Sweet Flag 2005 leaves in a few localities]

Lemnaceae

Lemna minor Common Duckweed Endla in pond
 [*Lemna trisulca*] 2004. Varangu. 2005 Kohala]
 [*Spirodela polyrhiza*] 2005 Endla]

Typhaceae

Typha latifolia Bulrush Widespread
 [*Typha angustifolia*] Lesser Bulrush Scattered records]

Cyperaceae

Scirpus sylvaticus Widespread; Kohala, Lahemaa
Bolboschoenus maritimus Saaremaa coasts, scattered
Schoenoplectus lacustris Matsalu
Schoenoplectus tabernaemontani Matsalu
 [*Blysmus compressus*] Blysmus 2004. Tagamõisa Peninsula]
 [*Blysmus rufus*] 2005 common on Saaremaa
 coastal marshes]
 [*Eriophorum angustifolium*] 2005 Viru Bog]
Eriophorum latifolium Common in Saaremaa fens
 [*Eriophorum gracile*] 2005 Tagamõisa Peninsula]
Eriophorum vaginatum Harestail Cotton Grass Common in bogs
Trichophorum cespitosum Widespread in bogs; Endla
 [*Trichophorum alpinum*] 2005 Saaremaa]
 [*Eleocharis uniglumis*] 2005 common along coasts]
 [*Eleocharis palustris*] Marsh Horsetail 2005 widespread]
 [*Eleocharis acicularis*] 2005 coasts of Saaremaa]
Eleocharis quinqueflora Few-flowered Spike-rush Saaremaa, in fens
 [*Schoenus nigricans*] 2005 Tagamõisa Peninsula]
Schoenus ferrugineus Saaremaa, in fens
Cladium mariscus Tagamõisa Peninsula, in fens
Rhynchospora alba White Beaked-sedge Viru and Endla Bogs
 [*Carex pauciflora*] Few-flowered Sedge 2005]
Carex pulicaris Flea Sedge Tagamõisa
 [*Carex dioica*] Dioecious Sedge 2004?]
Carex davalliana In fen beside road between
 Matsalu HQ and Suitsu Tower
Carex hirta Hairy Sedge Common : mostly on Saaremaa
Carex lasiocarpa Slender Sedge Scattered in east
 [*Carex riparia*] Greater Pond Sedge 2005 Kohala and Matsalu]
 [*Carex acutiformis*] Lesser Pond Sedge Varangu]
Carex pseudocyperus Cyperus Sedge Oandu
Carex rhynchophysa Varangu

<i>Carex rostrata</i>	Bottle Sedge	Varangu
[<i>Carex vesicaria</i>	Bladder Sedge	Scattered throughout]
[<i>Carex sylvatica</i>	Wood Sedge	2005 Endla]
[<i>Carex capillaris</i>	Hair Sedge	2005 Puhtu]
<i>Carex flacca</i>	Glaucous Sedge	Widespread in west: Saaremaa
<i>Carex panicea</i>	Carnation Sedge	Widespread in west: Saaremaa
<i>Carex vaginata</i>	Sheathed Sedge	Common in wet, wooded areas
<i>Carex distans</i>	Distant Sedge	Vilsandi Island
<i>Carex extensa</i>	Long-bracted Sedge	Vilsandi
<i>Carex hostiana</i>	Tawny Sedge	Scattered, in fens
<i>Carex flava</i>	Large Yellow Sedge	Varangu
<i>Carex lepidocarpa</i>	Long-stalked Yellow Sedge	Scattered, in fens, Saaremaa
[<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</i> (x) <i>bergrothii</i>		2004. Tagamõisa Peninsula & Vilsandi Island]
<i>Carex pallescens</i>	Pale Sedge	Vidumae
[<i>Carex ornithopoda</i>	Bird's-foot Sedge	Varangu along woodland paths 2005 Woods east of Kohala and also at Puhtu where grows with <i>digitata</i> !]
[<i>Carex digitata</i>	Fingered Sedge	2005 Puhtu]
[<i>Carex montana</i>	Soft-leaved Sedge	2005 Tagamõisa Peninsula]
<i>Carex ericetorum</i>	Rare Spring Sedge	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	Viru and Endla Bogs
[<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	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

<i>[Carex appropinquata</i>	Fibrous Tussock Sedge	Bog just a hundred yards from the carpark – one to check! 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? 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 divulsa</i>	Grey/Leers' Sedge	2005 Endla]
<i>[Carex muricata</i>	Prickly Sedge	Vidumae and Tagamõisa
<i>Carex contigua</i>	Spiked Sedge	Scattered.
<i>Carex disticha</i>	Brown Sedge	Coasts of Tagamõisa Peninsula
<i>Carex arenaria</i>	Sand Sedge	Scattered
<i>Carex leporina (ovalis)</i>	Oval Sedge	Scattered
<i>Carex echinata</i>	Star Sedge	Scattered
<i>[Carex elongata</i>	Elongated Sedge	2005 scattered in the east]
<i>Carex canescens</i>		Endla Bog
<i>[Carex brunnescens</i>		Damp woods at Viru and Oandu]
Orchidaceae		
<i>Cypripedium calceolus</i>	Lady's Slipper	In seed: Many plants Varangu; a few north of Kaali
<i>Epipactis palustris</i>	Marsh Helleborine	Common on the Tagamõisa Peninsula and Vilsandi
<i>Epipactis helleborine</i>	Broad-leaved Helleborine	Scattered in leaf and some in bud near Kilijatu Lake
<i>Epipactis atrorubens</i>	Dark Red Helleborine	Common on Tagamõisa
<i>Cephalanthera rubra</i>	Red Helleborine	Roadside north of Kihelkonna
<i>Listera cordata</i>	Lesser Twayblade	West of Kilijatu Lake
<i>Listera ovata</i>	Twayblade	Scattered
<i>Neottia nidus-avis</i>	Bird's-nest Orchid	Scattered, but 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	In flower near Kihelkonna
<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	Tagamõisa Peninsula; Altmõisa; coastal area west of Loona
<i>Liparis loeselii</i>	Fen Orchid	In fens near Kihelkonna
<i>Platanthera bifolia</i>	Lesser Butterfly Orchid	Widespread
<i>Platanthera chlorantha</i>	Greater Butterfly Orchid	Tagamõisa Peninsula.
<i>Gymnadenia conopsea</i>	Fragrant Orchid	In fens: Altmõisa and on Saaremaa.
<i>Ancamptis pyramidalis</i>	Pyramidal Orchid	Tagamõisa Peninsula
<i>Orchis militaris</i>	Military Orchid	In seed only. Letipea, Matsalu and Tagamõisa Peninsula
<i>Orchis ustulata</i>	Burnt-tip Orchid	In flower at Tina's farm, near Koruse, Tagamõisa
<i>Dactylorhiza incarnata</i>	Early Marsh Orchid	In seed, scattered, Tagamõisa
<i>Dactylorhiza cruenta</i>		In seed, scattered, near Koruse
<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 (baltica)</i>		Vilsandi
<i>Dactylorhiza fuchsii</i>	Common Spotted Orchid	Widespread
<i>Dactylorhiza maculata</i>		Scattered
<i>Dactylorhiza curvifolia (russowei)</i>		In flower on edge of Lake Kilijatu
<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 near Koruse, Tagamõisa Peninsula
<i>Malaxis monophyllos</i>	One-leaved Bog Orchid	Many in flower at Letipea, and a few at Varangu

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 th	Arrival
Day 2	July 7 th	Tallinn to Kohala; Kohala Manor
Day 3	July 8 th	Lahemaa –Viru Bog; Letipea
Day 4	July 9 th	Lahemaa – Oandu and the Beaver Trail and Altja
Day 5	July 10 th	Endla Bog and Varangu Springs
Day 6	July 11 th	To Matsalu; Altmoisa at Tuuru and Topu Laht
Day 7	July 12 th	Saaremaa: Vaike Vain Strait; Karja Kirke; Angla windmills; Kaali, north of; Kihelkonna Kirke
Day 8	July 13 th	Saaremaa: Tagamõisa Peninsula
Day 9	July 14 th	Saaremaa: Vilsandi Island; south of Loona Manor
Day 10	July 15 th	Saaremaa: Vidumae; Kuressaare; Tagamõisa Peninsula
Day 11	July 16 th	Saaremaa to Tallinn

Papilionidae

Swallowtail	<i>Papilio machaon</i>	Larvae on Milk-parsley at Varangu; 1 at Matsalu; 1 at Harilaid on the Tagamõisa Peninsula
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Pieridae

Large White	<i>Pieris brassicae</i>	Scattered, Saaremaa
Black-veined White	<i>Aporia crataegi</i>	Tagamõisa
Small White	<i>Artogeia rapae</i>	Scattered
Green-veined White	<i>Artogeia napi</i>	Scattered
Orange-tip	<i>Anthocharis cardamines</i>	Kohala
Brimstone	<i>Gonepteryx rhamni</i>	1 near Kihelkonna

Lycaenidae

Silver-studded Blue	<i>Plebejus argus</i>	Several on Viru Bog
Geranium Argus	<i>Eumedonia eumedon</i>	Several at Vidumae
Amanda’s Blue	<i>Agrodiaetus amanda</i>	Only seen near Kohala
Common Blue	<i>Polyommatus icarus</i>	Only seen on three days, Matsalu and Saaremaa

Nymphalidae

White Admiral	<i>Limenitis camilla</i>	Singles at Harilaid and Vidumae
Red Admiral	<i>Vanessa atalanta</i>	Altja
Small Tortoiseshell	<i>Aglais urticae</i>	Widespread
Silver-washed Fritillary	<i>Argynnis paphia</i>	Scattered, including Vidumae
Dark Green Fritillary	<i>Argynnis aglaja</i>	Locally abundant on Saaremaa

High Brown Fritillary	<i>Argynnis adippe</i>	1 at Vidumae (form <i>cleodoxa</i>)
Lesser Marbled Fritillary	<i>Brenthis ino</i>	Scattered, including Vidumae
Small Pearl-bordered Fritillary	<i>Clossiana selene</i>	3 near Harilaid car park, Tagamõisa
Nickerl's Fritillary	<i>Mellicta aurelia</i>	1 north of Kaali, at least 1 near Koruse on the Tagamõisa Peninsula and 2 at Vidumae
Scarce Fritillary	<i>Euphydryas maturna</i>	1 near Harilaid car park, Tagamõisa – a very scarce European species!
<i>Satyridae</i>		
Meadow Brown	<i>Maniola jurtina</i>	Widespread, seen on 4 days in good weather!
Ringlet	<i>Aphantopus hyperantus</i>	Very common and widespread.
Chestnut Heath	<i>Coenonympha glycerion</i>	Seen at Matsalu and north of Kaali.
Speckled Wood	<i>Pararge aegeria</i>	Only seen near Kihelkonna.
Woodland Brown	<i>Lopinga achine</i>	Several seen on the southern walk at Vidumae Nature Reserve.
<i>Hesperiidae</i>		
Small Skipper	<i>Thymelicus sylvestris</i>	Scattered.
Large Skipper	<i>Ochlodes venatus</i>	Reasonably common.

Systematic List Number 3 Birds

Little Grebe	<i>Tachybaptus ruficollis</i>	Vaike Van Strait
Great Crested Grebe	<i>Podiceps cristatus</i>	Vaike Van Strait
Cormorant	<i>Phalacrocorax carbo</i>	Scattered records – common on Saaremaa.
Grey Heron	<i>Ardea cinerea</i>	Common & widespread
Black Stork	<i>Ciconia nigra</i>	1 near Suitsu Tower, Matsalu; 1 south of Loona
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 Altmoisa and Vilsandi Island
Greylag Goose	<i>Anser anser</i>	Scattered records across Saaremaa Island, also in bay off Altmoisa
Barnacle Goose	<i>Branta leucopsis</i>	c.15 at Papissaare
Wigeon	<i>Anas penelope</i>	A few in Topu Laht off Altmoisa
Gadwall	<i>Anas strepera</i>	4 at Vaike Van Strait
Mallard	<i>Anas platyrhynchos</i>	Scattered
Shoveler	<i>Anas clypeata</i>	Topu Laht
Tufted Duck	<i>Aythya fuligula</i>	Letipea; Virtsu; Vaike Van Strait
Goldeneye	<i>Bucephala clangula</i>	Scattered records, including 2 adults and 2 juveniles on Kohala Lake
Goosander	<i>Mergus merganser</i>	3 adults and 8 juveniles off Altja; 1 adult and 2 juveniles in Vaike Van Strait; also seen off ferry to Virtsu
Honey Buzzard	<i>Pernis apivorus</i>	1 near Kihelkonna
Marsh Harrier	<i>Circus aeruginosus</i>	1 at Matsalu
Montagu's Harrier	<i>Circus pygargus</i>	1 female at Kohala
Sparrowhawk	<i>Accipiter nisus</i>	1 on Saaremaa
Common Buzzard	<i>Buteo buteo</i>	Scattered in Lahemaa and Saaremaa.
White-tailed Eagle	<i>Haliaeetus albicilla</i>	2 adults Vilsandi Island
Kestrel	<i>Falco tinnunculus</i>	1 seen on day 3
?Merlin	<i>Falco columbarius</i>	Possibly 1 seen on day 7
Hazel Grouse	<i>Bonasa bonasia</i>	1 flushed on lane to Endla
Corncrake	<i>Crex crex</i>	Kohala and Loona, calling most evenings
Coot	<i>Fulica atra</i>	Vaike Van Strait; Kuressaare
Common Crane	<i>Grus grus</i>	Seen on 5 days and heard on 8 including: c.50 seen near Varangu, 2 at Matsalu, 9 off Altmoisa, and 2 close to car near Loona.
Oystercatcher	<i>Haematopus ostralegus</i>	Scattered records
Ringed Plover	<i>Charadrius hiaticula</i>	1 at Harilaid and at least 2 off Altmoisa
Lapwing	<i>Vanellus vanellus</i>	Widespread
Black-tailed Godwit	<i>Limosa limosa</i>	In bay off Altmoisa
Curlew	<i>Numenius arquata</i>	6 seen in field near Loona
Common Redshank	<i>Tringa totanus</i>	In bay off Altmoisa and south of Loona.

Green Sandpiper	<i>Tringa ochropus</i>	Scattered records: 1 at Endla Bog and 1 off Altmoisa
Wood Sandpiper	<i>Tringa glareola</i>	1 at Kohala
Common Sandpiper	<i>Actitis hypoleuca</i>	1 at Letipea
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>	Only at Papissaare
Great Black-backed Gull	<i>Larus marinus</i>	Virtsu and Vaike Van Strait
Common Tern	<i>Sterna hirundo</i>	Scattered records, including Vilsandi.
?Arctic Tern	<i>Sterna paradisaea</i>	Probably seen off Tagamõisa and Vilsandi
Rock Dove	<i>Columba livia</i>	Feral Pigeon scattered
Woodpigeon	<i>Columba palumbus</i>	Common & widespread
Short-eared Owl	<i>Asio flammeus</i>	1 hunting over coastal meadow, Altmoisa.
Tengmalm's Owl	<i>Aegiolus funereus</i>	One flushed from tree at Varangu (near Lady's Slippers) – almost certainly this: a light speckled grey-chocolate brown slightly smaller than a Tawny Owl
Common Swift	<i>Apus apus</i>	Common & widespread
Black Woodpecker	<i>Dryocopus martius</i>	Apparently seen by a Danish couple, at a nest in Oandu forest, though couldn't refind nest or birds. Calls heard earlier by Greentours group was this species.
Great Spotted Woodpecker	<i>Dendrocopos major</i>	Scattered records
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>	Viru and Endla bogs
Meadow Pipit	<i>Anthus pratensis</i>	Scattered records
White Wagtail	<i>Motacilla alba</i>	Common & widespread
Wren	<i>Troglodytes troglodytes</i>	Scattered records: Oandu and Vidumae
Dunnock	<i>Prunella modularis</i>	Oandu
Robin	<i>Erithacus rubecula</i>	Kohala
Thrush Nightingale	<i>Luscinia luscinia</i>	Heard along river at Kohala on 3 evenings
Whinchat	<i>Saxicola rubetra</i>	Scattered
Northern Wheatear	<i>Oenanthe oenanthe</i>	Scattered records, mostly in the west
Blackbird	<i>Turdus merula</i>	Common & widespread
Song Thrush	<i>Turdus philomelos</i>	Juvenile at Kuressaare
Redwing	<i>Turdus iliacus</i>	Widespread in Lahemaa and Kohala areas
Fieldfare	<i>Turdus pilaris</i>	Common throughout
Grasshopper Warbler	<i>Locustella naevia</i>	Heard around Kohala
River Warbler	<i>Locustella fluviatilis</i>	Heard at Altja
Reed Warbler	<i>Acrocephalus scirpaceus</i>	Scattered in reedbeds: Matsalu, Vaike Van Strait and at Puutu
Great Reed Warbler	<i>Acrocephalus arundinaceus</i>	In reedbed in Vaike Van Strait
Icterine Warbler	<i>Hippolais icterina</i>	Around Kohala
Barred Warbler	<i>Sylvia nisoria</i>	1 heard north of Kaali

Common Whitethroat	<i>Sylvia communis</i>	Scattered
Blackcap	<i>Sylvia atricapilla</i>	Widespread, heard on most days
Greenish Warbler	<i>Phylloscopus trochiloides</i>	Around Kohala and Oandu
Wood Warbler	<i>Phylloscopus sibilatrix</i>	Oandu and Kohala
Chiffchaff	<i>Phylloscopus collybita</i>	Heard regularly, common & widespread
Willow Warbler	<i>Phylloscopus</i>	Recorded at several sites
Goldcrest	<i>Regulus regulus</i>	Scattered in Lahemaa and on Saaremaa
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>	1 seen on Beaver Trail, Lahemaa
Long-tailed Tit	<i>Aegithalos caudatus</i>	Several seen on day 10 on Saaremaa
Willow Tit	<i>Parus montanus</i>	North of Kaali and on Tagamõisa
Crested Tit	<i>Parus cristatus</i>	Scattered in Lahemaa, seen well at Endla
Coal Tit	<i>Parus ater</i>	Scattered
Great Tit	<i>Parus major</i>	Common & widespread
Blue Tit	<i>Parus caeruleus</i>	Common & widespread
Nuthatch	<i>Sitta europaea</i>	Around Lahemaa and Kohala
Common Treecreeper	<i>Certhia familiaris</i>	1 at Oandu and on Tagamõisa
Golden Oriole	<i>Oriolus oriolus</i>	1 heard at Kohala once
Red-backed Shrike	<i>Lanius collurio</i>	Common & widespread
Great Grey Shrike	<i>Lanius excubitor</i>	2 seen well from tower on Endla Bog
Jay	<i>Garrulus glandarius</i>	Seen at Oandu
Magpie	<i>Pica pica</i>	Common & widespread
Nutcracker	<i>Nucifraga caryocatactes</i>	1 heard at Vidumae
Jackdaw	<i>Corvus monedula</i>	Kuressaare
Rook	<i>Corvus frugilegus</i>	Scattered records
Hooded Crow	<i>Corvus (corone) cornix</i>	Common & widespread
Raven	<i>Corvus corax</i>	1 at Viru and 3 seen at Matsalu
Starling	<i>Sturnus vulgaris</i>	Common & widespread on Saaremaa
House Sparrow	<i>Passer domesticus</i>	Tallinn
Tree Sparrow	<i>Passer montanus</i>	Around stables at Endla reception area
Chaffinch	<i>Fringilla coelebs</i>	Common & widespread
Greenfinch	<i>Carduelis chloris</i>	Common & widespread
Goldfinch	<i>Carduelis carduelis</i>	Common & widespread
Siskin	<i>Carduelis spinus</i>	Kohala and at Endla
Linnet	<i>Carduelis cannabina</i>	Several near Puhtu
Common Crossbill	<i>Loxia curvirostra</i>	Seen well at Viru, heard at Oandu
Common Rosefinch	<i>Carpodacus erythrinus</i>	Scattered in Lahemaa and Kohala area
Reed Bunting	<i>Emberiza schoeniculus</i>	2 in reeds on Vaike Van Strait
Yellowhammer	<i>Emberiza citrinella</i>	Common & widespread

Systematic List Number 4 Mammals

Common Mole	<i>Talpa europaea</i>	Hills seen in several places
Fox	<i>Vulpes vulpes</i>	1 adult near Varangu, 2 cubs on Tagamõisa
Bear	<i>Ursus arctos</i>	Territorial scratch markings on a tree along the Oandu nature trail.
Lynx	<i>Lynx lynx</i>	Territorial scratch markings on a tree at Oandu nature trail.
Roe Deer	<i>Capreolus capreolus</i>	Droppings seen near Loona.
Red Deer	<i>Cervus elaphus</i>	1 seen from Suitsu tower, Matsalu.
Wild Boar	<i>Sus scrofa</i>	Rooting activity seen at several sites.
Elk	<i>Alces alces</i>	Footprints and droppings seen in several places
Red Squirrel	<i>Sciurus vulgaris</i>	Feeding evidence at Oandu
Beaver	<i>Castor fiber</i>	Dams, trails and gnawed tree-stumps in small valley on the Beaver Trail.

Systematic List Number 5 Reptiles & Amphians

Moor Frog	<i>Rana arvalis</i>	Kohala
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 6 Dragonflies and Damselflies

The taxonomy and systematic order follows Askew 1998.

NOTE: A very poor list due to quite wet and cool weather.

Beautiful Demoiselle	<i>Calopteryx virgo</i>	Near Silli
Emerald Damselfly	<i>Lestes sponsa</i>	Varangu
Large Red Damselfly	<i>Pyrrhosoma nymphula</i>	Near Silli
Common Blue Damselfly	<i>Enallagma cyathigerum</i>	Near Silli
Black-tailed Skimmer	<i>Orthetrum cancellatum</i>	Letipea and Tagamõisa