The annual excursion of the Nordic Bryological Society (NBS) and the Finnish Bryophyte Expert Group to Kuusamo (Finland) in 2014

Authors: Juutinen, Riikka, Åkesson, Richard, Syrjänen, Kimmo, and Virtanen, Risto

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The annual excursion of the Nordic Bryological Society (NBS) and the Finnish Bryophyte Expert Group to Kuusamo (Finland) in 2014

Riikka Juutinen, Richard Åkesson, Kimmo Syrjänen and Risto Virtanen

The Nordic Bryological Society had its annual meeting and excursion on 21 to 24 of August 2014 in Kuusamo, Koillismaa biogeographical province (Ks) in northeast Finland close to Russian border. In total 23 participants attended the extremely rainy excursion. Despite the weather we made nice discoveries of Red Listed species typical for Kuusamo area e.g. Ar nellia fennica, Campylophyllum halleri, Conocephalum salebrosum, Palustriella commutata and Philonotis calcarea. Lophozia pellucida was discovered new to Finland from Vasajängänoja. Encalypta alpina and Riccardia incurvata were collected for the first time from Ks. Total of 47 nationally Red Listed and seven regionally threatened species were recorded during the excursion.

Friday 22 August

First location of the day was Korvasjärvi in Liikasenvaara area in Oulanka National Park, in a restricted access border zone between Finland and Russia. We split into
two groups: the majority of the bryologists headed to the south shore of Lake Korvasjärvi and the rest to north shore. Previous collections from the area were made decades ago, during 1937–1939, by Auer, Kotilainen, Vaarama and Tuomikoski (Eliölajit administrative database for Red Listed species).

The south group went east through a spruce forest to inspect some low dolomite outcrops adjacent to mire. They found several interesting bryophytes, including Arnetlia fenestra (VU), Cyrtomnium hymenophylloides (NT), Plagiopus oederianus and Scapania gymnostomophila (NT). From there they continued south across a mire containing both rich and poor areas. In the more lime-affected parts they observed e.g. Barbilophozia kunzeana, B. quadriloba, Campylium stellatum, Catoscopium nigritum, Leiocolea ruethana, Scorpidium scroberciferum and Sphagnum warnstorfii.

South of the mire was a herb-rich spruce swamp with spring fens. There we saw e.g. Cinclidium stygium, Meeisia uliginosa s.lat. (VU), Rhizomnium magnifolium, R. pseudopunctatum, Tayloria lingulata and Tritomaria polita. On rocks and humus in a small stream grew Leiocolea bantriensis (NT), L. collaris (NT) and Hydrohypnum species. The north group had a hasty run of 1.5 km to the dolomite outcrops near the north shore of Korvasjärvi. From the rather low, sheltered calcareous walls they found abundant Encalypta streptocarpa, Seligeria diversifolia (NT) and Tortella tortuosa.

The other half of the day was spent in locus classicus of Kobresia myosuroides south of Korvasvaara hill near lakes Kotilaistenlampi and Vanhalampi (Liikasenvaara, Oulanka National Park). From Korvasvaara road we found tiny Aontroemia longipes (EN) growing rather abundant. Accompanying species included Leiocolea badensis (VU) and Riccardia incurvata (NT, new to Ks province). Next stop was a periodically drying pond where grew e.g. Calliclone alpina and Seligeria diversifolia (NT) and Scorpidium cossarei. The slopes of Korvasvaara were filled with calcareous springs and spring brooks with Cratoneuron filicinum, Palustriella commutata (VU), P. decipiens (NT), P. falcata (NT) and Philonotis calceara (EN). Amblyodon dealbatus (VU), Catoscopium nigritum, L. collaris (NT) and Scorpidium scroberciferum and Tritomaria polita were growing on the banks. After inspecting some springs we split into two groups: half of us headed for gorge Kettukuru NWW of Vanhalampi pond and the rest continued to study calcareous fens and spring brooks. In the end, Kettukuru was actually not studied because before our group could get there they found something better: a narrow calcareous ravine under rapids Sirkkakoski. Conocephalum salebrosum (VU), Cratoneuron filicinum and Pella endiviifolia (NT) were abundant in a small brook flowing at the bottom of the gorge.

The quickest ones had even some time to investigate rocks near rapids Kiutaköngäs. They found e.g. Fissidens viridulus (RT) and Pseudoleskeella nervosa. It was raining more or less the whole day.

In the evening we microscoped our specimens and enjoyed of the expertise and great company.

Saturday 23 August

On Saturday morning we split into three groups: one went to Jäkälävuoma (‘the gorge with lichen’), one to Lammasvuoma (‘the gorge with sheep’) and the last to Kallioniitynku–Vasajängänoja gorge in Salla commune. The first two locations are situated in Juuma area in Oulanka National Park, Kuusamo commune and the third some 25 km northwest of these in Salla commune. Jäkälävuoma was thought to be the best and the most scenic bryophyte location so that bus was full in no time. Rest of us divided between the two other less studied calcareous locations. During the day it was mostly raining, occasionally very heavily.

On the way to Jäkälävuoma gorge we passed calcareous fens where e.g. Brachythecium turgidum, Bryum weigelii, Catoscopium nigritum, Meeisia uliginosa, Onco-
phorus virens, Palustriella falcata (NT), Scapania hyperborea, S. paludicola and Splachnum vasculosum grew. In the canyon, we started directly to search for dolomite rock walls and found some Campylophyllum halleri (NT), Cyrtothecium intricatum (NT), Encalypta hymenophylloides (NT), Encalypta alpina (NT, new to Ks province), Hypnum recurvatum, Orthothecium strictum (NT) and Timmia austriaca. Besides the cliffs we visited small mire W of Kallioportti and refound an abundant population of Hamatocaulis vernicosus (VU) and a nice patch of Moerckia hibernica s. lat. (VU).

The river gorges of Kallioniitynkuru and Vasa-jängänoja north of Oulanka National Park exhibit remarkable range of different bryophyte habitats from 20 m high calcareous rock walls to seasonally wet calcareous ponds. Both gorges host large populations of Arnellia fennica (VU), Orthothecium intricatum (NT), Scapania gymnostomophila (NT) and Timmia comata (VU). Also Gymnostomum aeruginosum (NT), Hygroambystegium fluviatile, Fontinalis hypnoides, Dichodontium pellucidum, Dichelyma falcatum, Campyliadelphus elodes (VU).

In Lammasvuoma, we discovered Arnellia fennica (VU) and Cyrtommium hymenophylloides (NT) to be fairly common. Other species we collected included e.g. Campylophyllum halleri (NT), Encalypta alpina (NT, new to Ks province), Hypnum recurvatum, Orthothecium strictum (NT) and Timmia austriaca. Besides the cliffs we visited small mire W of Kallioportti and refound an abundant population of Hamatocaulis vernicosus (VU) and a nice patch of Moerckia hibernica s. lat. (VU).

Figure 2. Excursion participants, Oivanki, Kuusamo. Front row from left to right: Kimmo Syrjänen and Krister Karttunen. Middle row: Per Darell, Kristian Hassel, Antje Neumann, Sanna Huttunen, Inkeri Ahonen, Riikka Juutinen, Niina Önttonen, Ari Parnela, Tiuomo Kuitunen, Richard Åkesson. Top row: Christine Daute, Des Callaghan, Jan Larsen, Turkka Korvenpää, Timo Kypärä, Xiaolan He. Missing from the picture: Sanna Laaka-Lindberg and Anni-Elina Aittamäki.
Pseudocalliergon angustifolium (VU). From Vasajängänoja, we found Lophozia pellucida (VU) as new to Finland. It was growing on moist dolomite wall mixed with Arnelia fennica. Both gorges have also a rich vascular flora e.g. on walls of Vasajängänoja gorge grows a large population of threatened Arenaria pseudofrigida. These gorges are still not fully explored, but their current bryophyte records with many endangered or rare species strongly motivate their protection and inclusion to the Oulanka National Park.

In the evening there was the annual meeting of NBS, some more microscoping and organizing specimens collected in soggy paper bags. All day outside in the rain and having sauna on top of that took its toll on most but some stayed to microscope until midnight.

Sunday 24 August

About half of excursion participants headed home after breakfast but the rest of us made an excursion to Ruka fjell. First we tried unsuccessfully to find the doubtful Lophozia debiliformis (DD) from its only known locality in Finland. Afterwards we went so see some misty scenery from the top of Ruka fjell and found e.g. Diphyscium foliosum (NT) and Marsupella sprucei (EN).

We then continued to Saaruansuo E of Ruka to see some common Sphagna. For example, S. warnstorffii, subsecundum, subnitens, subfulvum, teres and riparium were found only some five meters from the road. On a tree branch in the river there was a little of Campylophyllum sommerfeltii.

We ended the excursion to some random rapid we just located from the map. The rapid was never reached by most of us because of the unstable ditch and a fence blocking our way but we didn’t mind. There was after all that interesting ditch there.

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References


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