

Nomenclatural type relevés of Icelandic heathland associations and subassociations.

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Abstract: In this paper the nomenclatural type relevés of the following associations and subassociations of Icelandic heathland communities are published: **Armerio-Silenetum acaulis**: A. achilleetosum millefolii; B. cerastietosum fontani; C. galletosum normani. **Racomitrio lanuginosi-Thalictretum alpini**: A. galletosum normani; B. inops (species poor subassociation). **Agrostio capillaris-Hylocomietum splendentis**: A. inops; B. racomitrietosum canescentis. **Racomitrio canescentis-Gentianetum nivalis**.

Keywords: Phytosociology, heathland communities, Iceland.

In the thesis: *Composition and dynamical status of heathland communities in Iceland in relation to recovery measures* (GUNNLAUGSDÓTTIR 1985), there the nomenclatural type relevés (NTR) are missing in the descriptions of associations and subassociations.

As the names of syntaxa are invalidly published when the names of syntaxa are not applied to nomenclatural type element (BARKMAN et al. 1976) the nomenclatural type elements or relevés (NTR) will be published here in order to make the described syntaxa validly published.

THE NOMENCLATURAL TYPE RELEVÉS

Armerio-Silenetum acaulis (Table 8a & b, ref. no. 1-107, NTR: Ref. no. 3 for ass. and subass. A.) Hadac 1972 em.

A. achilleetosum millefolii (Ref. no. 1-89, NTR: Ref. no. 3).

The species of NTR are: *Silene acaulis* (1), *Cardaminopsis petraea* (1), *Achillea millefolium* (1), *Stereocaulon* spp. (3), *Ceratodon purpureus* (1), *Poa alpina* (1), *Minuartia rubella* (1), *Luzula spicata* (1), *Thymus praecox* ssp. *arcticus* (1), *Poa glauca* (3), *Festuca rubra* ssp. *pruinosa* (4), *Agrostis vinealis* (5), *Arenaria norvegica* (1), *Silene maritima* (1), *Polytrichum piliferum* (1). - The numbers within the brackets refer to the estimated cover-abundance data of

the vegetation analyses that have been transformed into the ordinal scale (VAN DER MAAREL 1979).

B. cerastietosum fontani (Ref. no. 90-96, NTR: Ref. no. 94).

The species of NTR are: *Silene acaulis* (1), *Cardaminopsis petraea* (2), *Cerastium fontanum* (2), *Racomitrium canescens* (1), *Luzula spicata* (2), *Thymus praecox* ssp. *arcticus* (1), *Poa glauca* (1), *Festuca rubra* ssp. *pruinosa* (3), *Agrostis stolonifera* (2), *Silene maritima* (2) and *Equisetum arvense* (2).

C. galletosum normanii (Ref. no. 97-107, NTR: Ref. no. 99)

The species of NTR are: *Silene acaulis* (2), *Cardaminopsis petraea* (2), *Armeria maritima* (2), *Gallium normanii* (2), *Mitruartia rubella* (2), *Draba incana* (1), *Festuca vivipara* (2), *Lychnis alpina* (2), *Luzula spicata* (2), *Cerastium alpinum* (2), *Thymus praecox* ssp. *arcticus* (2), *Poa glauca* (2), *Festuca rubra* ssp. *pruinosa* (2), *Agrostis vinealis* (2), *Arenaria norvegica* (2) and *Equisetum arvense* (1).

Racomitrio lanuginosi-Thalictretum alpini (Table 9a & b, ref. no. 1-122, NTR: Ref. no. 17 for ass. and subass. A.).

A. galletosum normanii (Ref. no. 1-116, NTR: Ref. no. 17).

The species of NTR are: *Racomitrium lanuginosum* (9), *Thalicttrum alpinum* (2), *Cladonia uncialis* (2), *Ptilidium ciliare* (1), *Cetraria islandica* (2), *Rhytidium rugosum* (2), *Gallium normanii* (2), *Luzula multiflora* (3), *Gallium verum* (2), *Equisetum variegatum* (2), *Kobresia myosuroides* (5), *Stereocaulon alpinum* (2), *Festuca vivipara* (3), *Thymus praecox* ssp. *arcticus* (3), *Racomitrium canescens* (3), *Cladonia furcata* (3), *Peltigera polydactyla* (1), *Cladonia pyxidata* (1), *Hylacomium splendens* (5), *Festuca rubra* ssp. *pruinosa* (3), *Carex bigelowii* (3), *Polygonum viviparum* (2), *Empetrum nigrum* ssp. *nigrum* (3), *Agrostis vinealis* (2), *Peltigera canina* (2), *Equisetum arvense* (2), *Cladonia gracilis* (2), *Rhytidadelphus triquetrus* (1), *Drepanocladus uncinatus* (1), *Rhytidadelphus squarrosus* (1), *Cladonia arbuscula* (1), *Thamnolia vermicularis* (2), *Cornicularia aculeata* (1), *Polytrichum alpinum* (2), *Cladonia macroceras* (3), *Equisetum pratense* (3), *Botrychium lunaria* (1) and *Hierochloë odorata* (1).

B. inops (species poor subassociation) (Ref. no. 117-122, NTR: Ref. no. 121).

The species of the NTR are: *Racomitrium lanuginosum* (9), *Thalicttrum alpinum* (1), *Cladonia uncialis* (2), *Ptilidium ciliare* (2), *Cetraria islandica* (3), *Luzula multiflora* (2), *Peltigera leucophlebia* (2), *Kobresia myosuroides* (3), *Stereocaulon alpinum* (3), *Festuca vivipara* (2), *Racomitrium canescens* (2), *Cladonia furcata* (1), *Peltigera polydactyla* (2), *Hylacomium splendens* (2), *Festuca rubra* ssp. *pruinosa* (2), *Gallium boreale* (2), *Carex bigelowii* (2), *Polygonum viviparum* (2), *Juncus trifidus* (1), *Empetrum nigrum* ssp. *nigrum* (6),

Equisetum arvense (2), *Salix herbacea* (5), *Trisetum spicatum* ssp. *pilosiglume* (1), *Thamnolia verticillaris* (2), *Silene acaulis* (1) and *Polytrichum piliferum* (1).

Agrostio capillaris-Hylocomietum splendidis (Table 11a & b, ref. no. 1-72, NTR: Ref. no. 14 for ass. and subass. B.).

A. **inops** (Ref. no. 1-11, NTR: Ref. no. 5).

The species of the NTR are: *Agrostis capillaris* (4), *Rhytidiadelphus squarrosus* (6), *Poa pratensis* (2), *Gallium boreale* (2), *Gallium verum* (3), *Luzula multiflora* (2), *Carex bigelowii* (4), *Taraxacum* sp. (2), *Festuca rubra* ssp. *rubra* (3), *Drepanocladus uncinatus* (8), *Festuca rubra* ssp. *pruinosa* (5), *F. vivipara* (3), *Equisetum arvense* (2) and *Agrostis vinealis* (6).

B. **racomitrietosum canescentis** (Ref. no. 12-72, NTR: Ref. no. 14).

The species of the NTR are: *Agrostis capillaris* (4), *Rhytidiadelphus squarrosus* (2), *Poa pratensis* (1), *Hylocomium splendens* (9), *Racomitrium canescens* (5), *Kobresia myosuroides* (3), *Polygonum viviparum* (1), *Gallium normanii* (2), *Racomitrium lanuginosum* (2), *Peltigera leucophlebia* (1), *Thymus praecox* ssp. *arcticus* (2), *Gallium boreale* (3), *Gallium verum* (2), *Luzula multiflora* (2), *Carex bigelowii* (3), *Drepanocladus uncinatus* (3), *Peltigera canina* (2), *Festuca vivipara* (3), *Equisetum arvense* (2), *Agrostis vinealis* (3), *Equisetum variegatum* (2), *Cetraria islandica* (2), *Ptilidium ciliare* (1), *Luzula spicata* (1) and *Thalictrum alpinum* (2).

Racomitrio canescentis-Gentianetum nivalis (Table 13a & b, ref. no. 1-6, NTR: Ref. no. 4).

The species of the NTR are: *Gentiana nivalis* (2), *Salix lanata* (3), *S. phyllifolia* (1), *Lophozia ventricosa* (2), *Gentianella amarella* (2), *Lomatogonium rotatum* (2), *Dicranella subulata* (1), *Parnassia palustris* (2), *Bryum inclinatum* (1), *Festuca vivipara* (5), *Luzula multiflora* (2), *Cerastium fontanum* (1), *Racomitrium canescens* (9), *Agrostis vinealis* (7), *Festuca rubra* ssp. *pruinosa* (5), *Empetrum nigrum* ssp. *nigrum* (3), *Peltigera canina* (1), *Gallium normanii* (2), *Luzula spicata* (2), *Equisetum arvense* (2), *Armeria maritima* (2), *Thymus praecox* ssp. *arcticus* (2), *Calluna vulgaris* (1), *Botrychium lunaria* (1), *Silene acaulis* (1), *Cerastium alpinum* (2), *Salix herbacea* (2), *Trisetum spicatum* ssp. *pilosiglume* (1), *Polytrichum piliferum* (1), *Scapania* cf. *curta* (1), *Poa glauca* (2), *Polytrichum alpinum* (1), *Sagina nodosa* (2), *Euphrasia frigida* (2), *Stereocaulon alpinum* (1), *Juncus trifidus* (1), *Peltigera leucophlebia* (1), *Ceratodon purpureus* (1), *Peltigera spurta* (1), *Anthelia juratzkana* (2), *Rumex acetosella* (2), *Bartramia ithyphylla* (1), *Cladonia* sp. (1), *Agrostis stolonifera* (2), *Selaginella selaginoides* (2), *Nardia scalaris* (1), *Lophozia* sp. (1), *Peltigera venosa* (1), *Cephalozia* cf. *rubella* (1), *Kobresia myosuroides* (2) and *Ranunculus acris* (2).

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