

Dietbert
Thannheiser
University
Hamburg

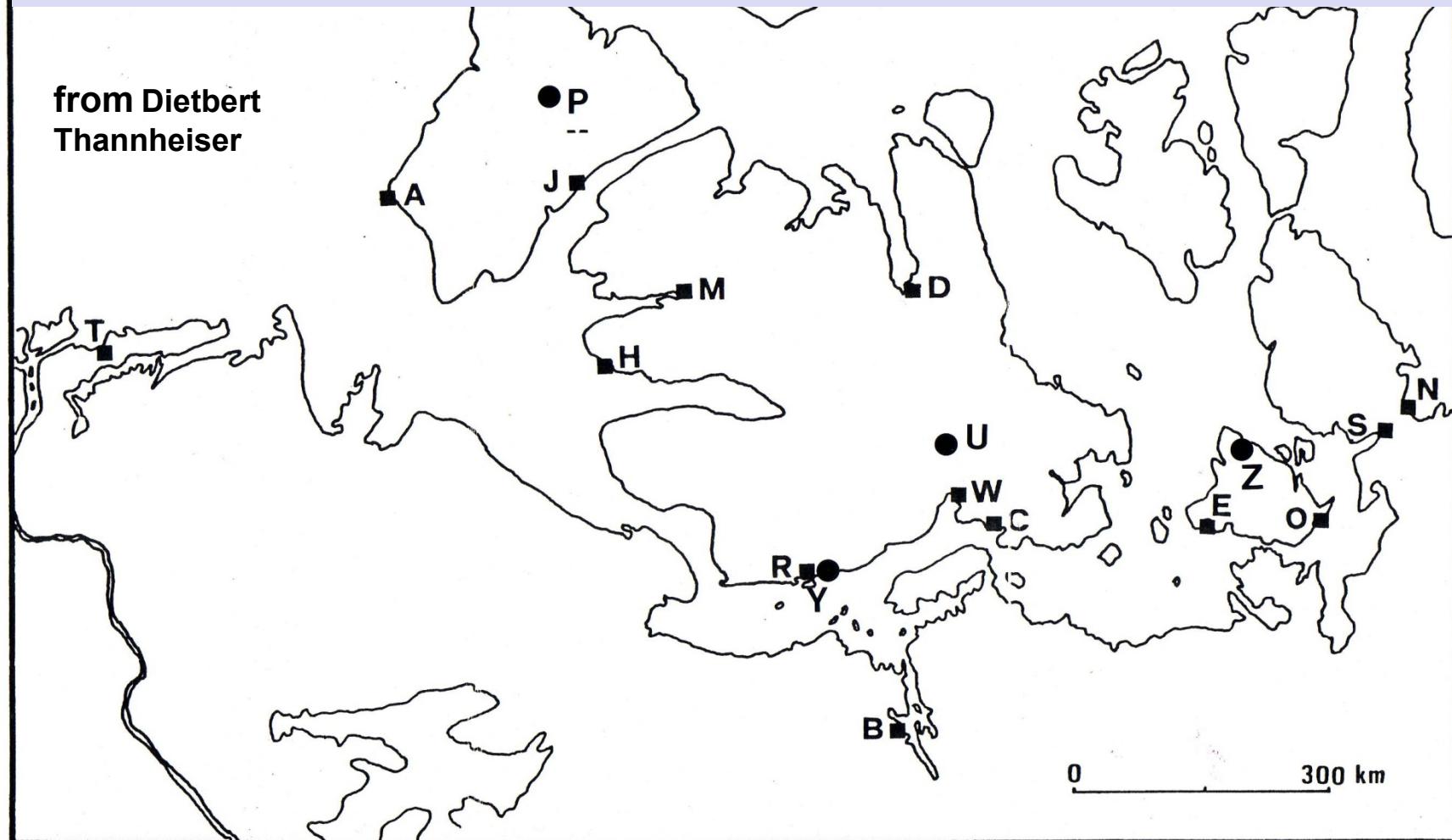
Phytosociology of Western Canadian Arctic



Research Area 1971, 1973, 1983, 1984, 1986, 1987, 1988 and 1998

Research area and fieldseasons 1971, 1973, 1983, 1984, 1986, 1987, 1988 and 1998

from Dietbert
Thannheiser



A Sachs Harbour
B Bathurst Inlet
C Cambridge Bay
D Hadley Bay
E Gjoa Haven
F Shoran Lake

H Holman
J Johnson Point
K Terror Bay
M Minto Inlet
N Netsiksiuvik
O Surrey Lake

S Spence Bay
R Richardson Islands
T Tuktoyaktuk
W Wellington Bay
Y Johansen Bay
Z Port Parry



Saltmarshes



Puccinellietum phryganodis Hadač 1946
Caricetum subspathacea Hadač 1946



Caricetum glareosae de Molenaar 1974



Mertensietum maritimae (Nordh. 1940) Thannheiser 1981



Honckenyo diffusae-Elymetum mollis
(Tx 1970) Thanh. 1983





Bryo-Dupontietum fisheri Hadač 1946



Bryum pseudotriquetrum-community



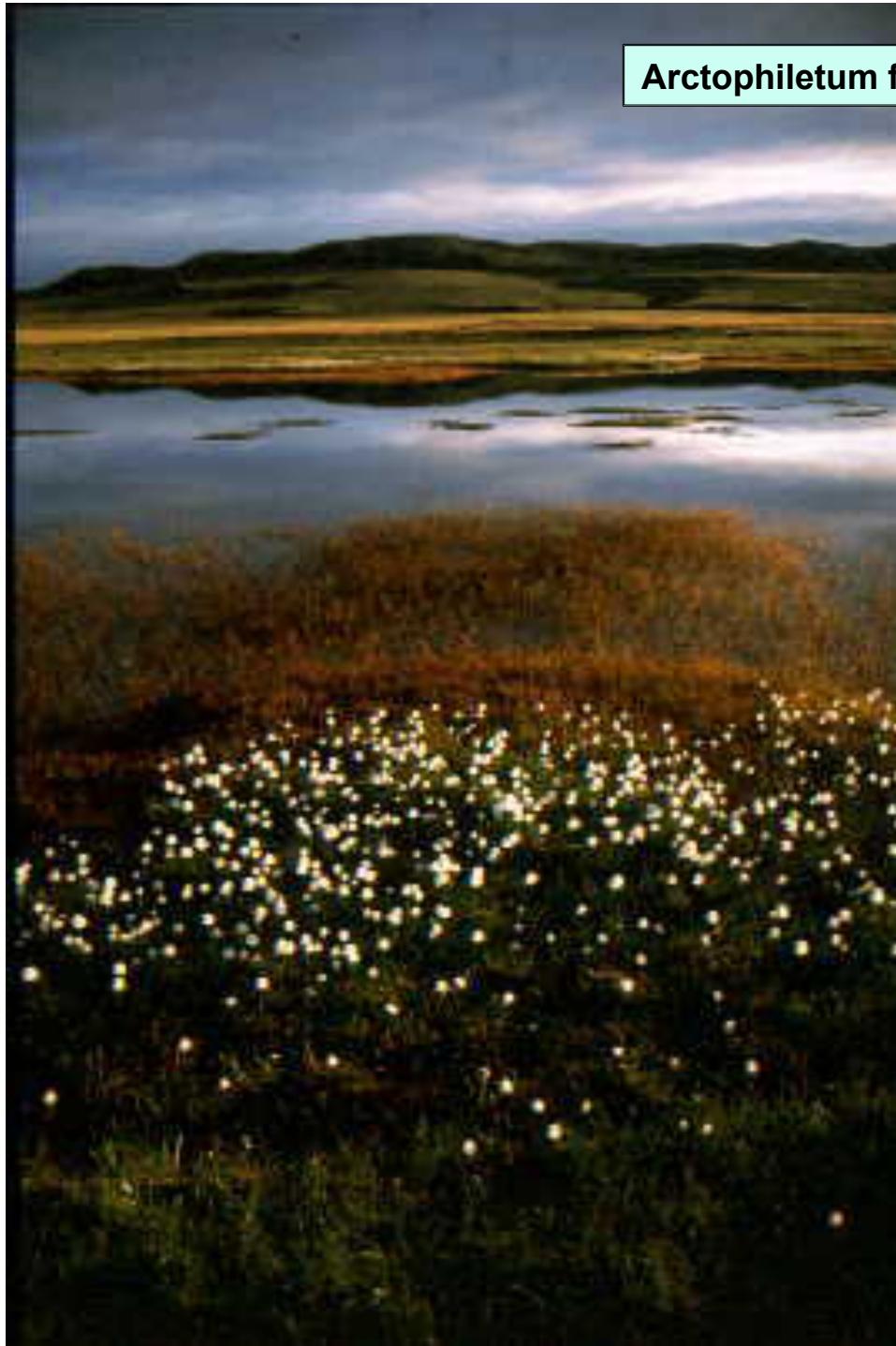
Snowbeds



Phippsion algidae Barrett et Krajina 1968

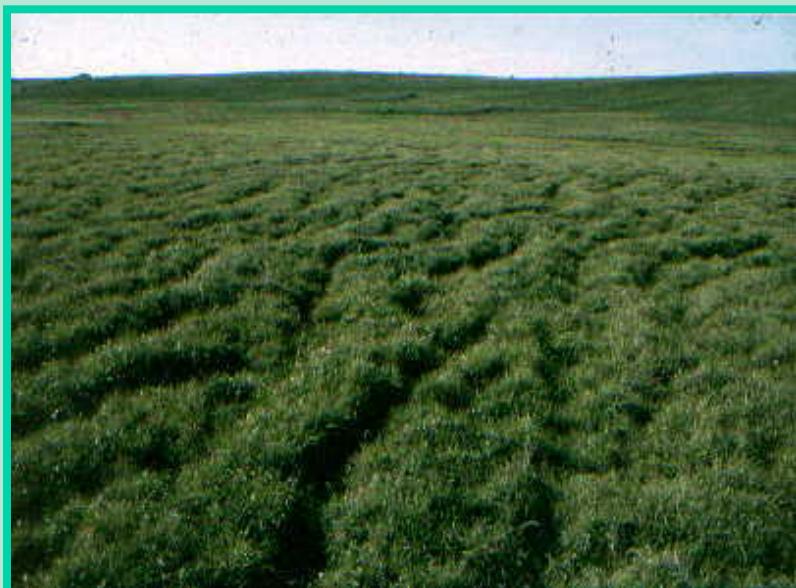
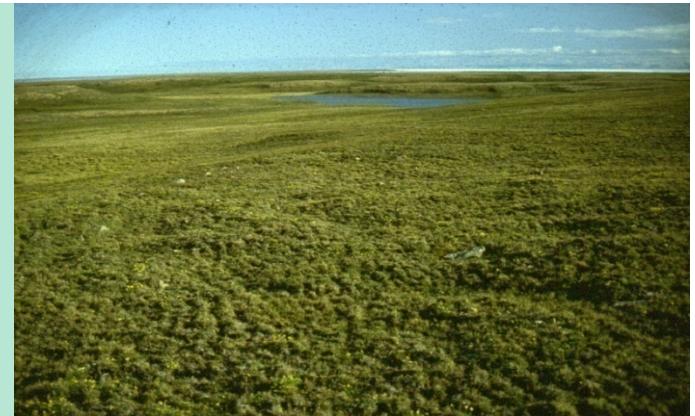
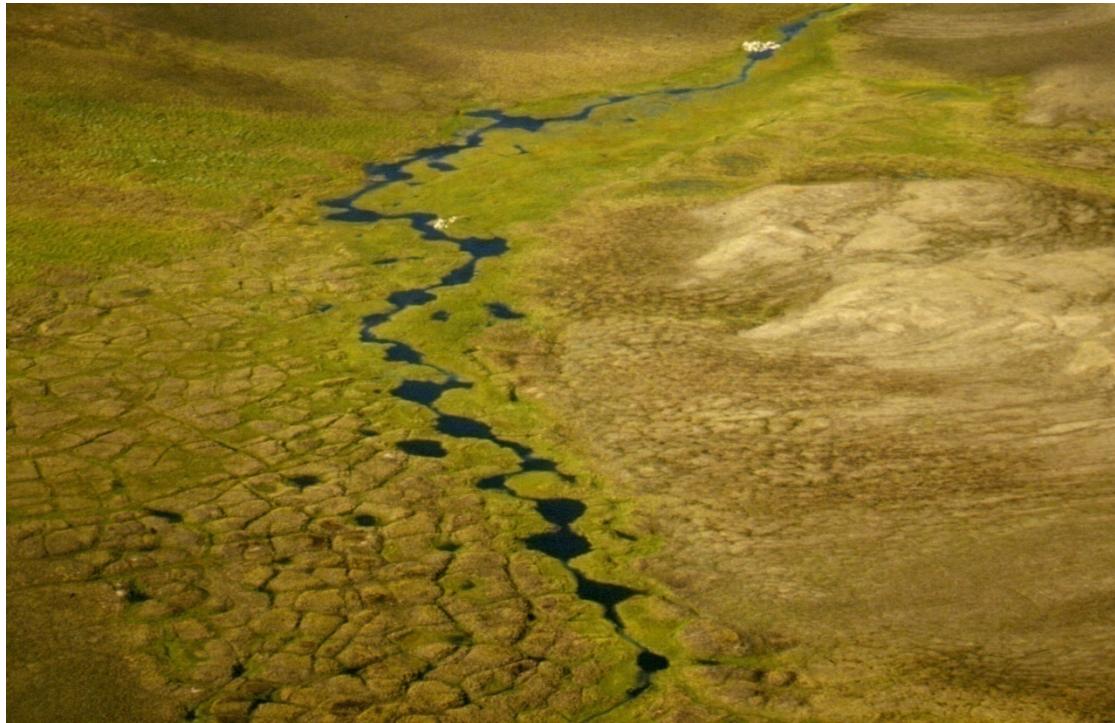
Salicetum pseudopolaris Lambert 1968

Arctophiletum fulvae (Lambert 1968) Thannh. 1976



Pleuropogon sabinei-community

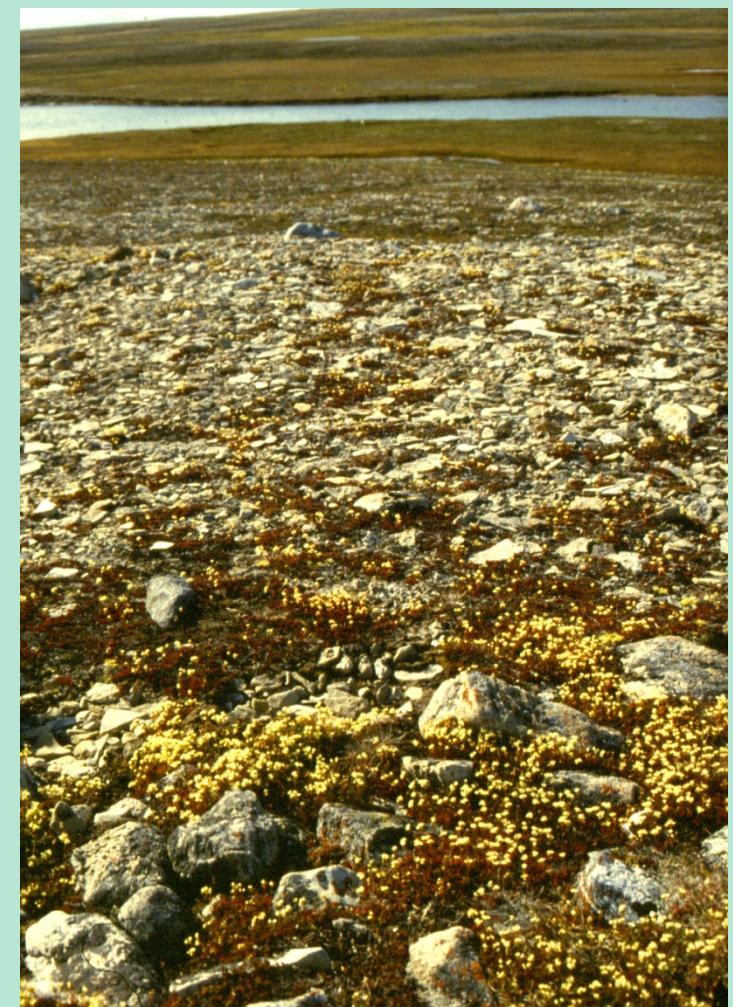
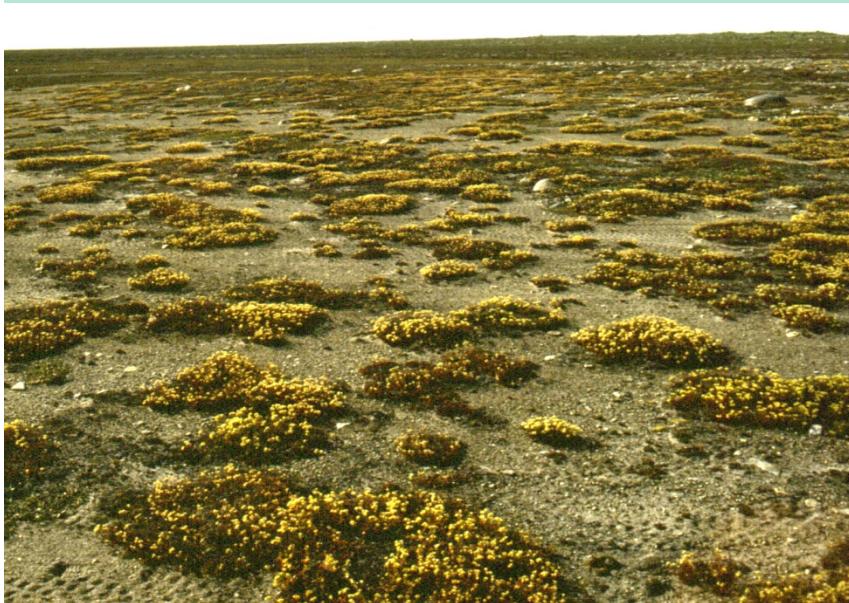




Caricetum stantis Barret et
Krajina 1968



Papaverion dahliani Hofm. 1968 ex Daniëls 2013



Saxifraga tricuspidata community



**Dryadion
integrifoliae**
Ohba ex Daniëls
1982



Pedicularo-Dryadetum integrifoliae Barrett et Krajina 1972



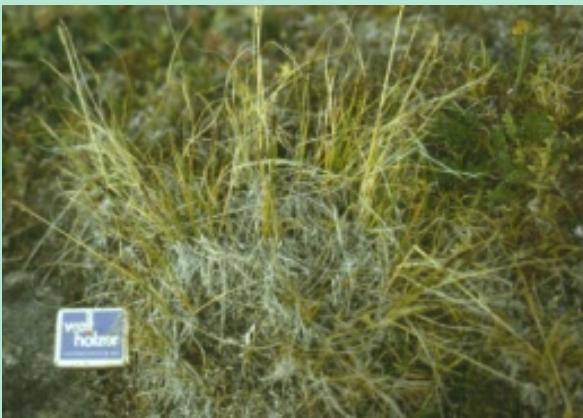
Tetragono-Dryadetum integrifoliae
Barrett et Krajina 1972





Caricetum nardinae Nordh. 1936

Kobresia hyperborea



Kobresia myosuroides





Carex rupestris-community



Luzulo-Salicion arcticae
Barrett et Krajina 1972



**Oxytropis
arctica**



Oxytropis maydeliana

Phytosociological relevés from Western Canadian Arctic

(2013)

Dietbert Thannheiser (Hamburg/Münster)

Authors	Location	Publ.	Not publ.	Relevé size m ²	Envir. data	Digital data	Map	Notes
Barrett, P. A. (1972)	Devon Island	66		25-100				
Batten, D.S & J. Svoboda (1994)	Ellesmere Island	7		0,5				
Bergeron, J.F.S. & J. Svoboda (1989)	Ellesmere Island	62		2,5				
Bliss, L.C. & J. Svoboda (1984)	High Canadian Arctic	30		2,5				
Bournerias, M. (1978)	Niveau-Québec	31		5-100				
Corns, G.W. (1974)	Mackenzie-Delta	6			X			transect; frequency
Edlund, S. (1982)	District of Keewatin	9			x		x	
Kershaw, K.A. (1974)	Hudson Bay	236						
Kojima, S. (1991)	Corwallis Island	7						constancy
Kojima, S. (1994)	Ellesmere Island	57						consancy, transect
Muc, M. et al. (1989)	Ellesmere Island	6		0,5				
Nams, M.L. & B. Freedman (1987)	Ellesmere Island	8						
Pakarinen, P. & D.H. Vitt (1973)	Devon Island	3						Moss communities
Rivas, Martinez, S. et al. (1999)	Yukon	5						
Sasse, E. & D.Thannheiser (1988)	Western Canadian Arctic	81		1-10				
Schweingruber, F. (1977)	Banks Island	99		4-50			x	
Sheard, J.W. & D.W. Geale (1983)	Bathurst Island	7						

Authors	Location	Publ.	Not publ.	Relevé size m ²	Envir.dat a	Digital map	Map	notes
Thannheiser, D. (1975)	Canadian Artkic Archipelago	5 23		1-10				23 constancy
Thannheiser, D. (1976)	West. Can. Arctic-Archipelago	40		1-100				
Thannheiser, D. (1979)	Canadian Arctic-Archipelago	50		1-10				
Thannheiser, D. (1989)	Banks Island	1				x		constancy
Thannheiser, D. (1971-1989)	Western Canadian Arctic		2000	1-100				manuscript
Thannheiser, D. & B. Geesink (1990)	Western Canadian Arctic Archipelago	17				x		constancy
Thannheiser, D. & T. Willers (1988)	Western Canadian Arctic Archipelago	18						constancy and transects
Vonlanthen, C.M. et al. (2008)	Canadian High Arctic	75		1				
Walker, D.A. et al. (20011)	Western Canadian Arctic	5		1				constancy
Wüthrich, C., I Möller & D. Thannheiser (2000)	Victoria Island	1						constancy
Daniëls, F.J.A. (1992)	Sverderup Pass		42	1-10				
Daniëls, F.J.A. & Walker, D.A. (2005)	Isachsen		20					
Daniëls, F.J.A. (1999)	Ellesmere Island		15					
Sum of published and unpublished relevés		3033						

Syntaxonomical literature of Canadian Arctic (Dietbert Thannheiser 2013)

- Barrett, P. (1972):** Phytogeocoenoses of a coastal lowland ecosystem, Devon Island. – Ph.D.Thesis, Dept Bot. Univ. of British Columbia, Vancouver, B.C.
- Batten, D.S. & J. Svoboda (1994):** Plant communities on the uplands in the vicinity of the Alexandra Fiord Lowland. In: J.Svoboda & Bergeron, J.-F. and J. Svoboda (1989): Plant communities of Sverdrup Pass, Ellesmere Island, N.W.T. - Musk-Ox 37:76-85.
- Bliss, L.C. and W.G. Gold (1994):** The patterning of plant communities and edaphic factors along a high arctic coastline: implications for succession. - Can. J. Bot. 72:1095-1107.
- Bliss, L.C. and J. Svoboda (1984):** Plant communities and plant production in Western Queen Elisabeth Islands. - Holarctic Ecology 7:325-344.
- Bournérias, M. (1978):** Contribution à l'étude de la végétation arctique influence par le calcaire près de Puvivnituk (Nouveau-Québec, Canada). - Doc. phytosoc. N.S. II:13-36.
- Corns, I.G.W. (1974):** Arctic plant communities east of the Mackenzie Delta. - Can. Jour. of Bot. 52(7):1731-1745.
- Edlund, S.A. (1982):** Plant communities on the surfical materials of north-central District of Keewatin, N.W.T. - Geolog. Surv. of Can., Paper 80-33, p. 20.
- Freedman, B. (eds):** Ecology of a Polar Oasis. Toronto, Campus Univ. Press. 97-110
- Kershaw, K.A. (1974):** Studies on lichen-dominated systems.X. The sedge meadows of the coastal raised beaches. - Can. J. of Bot. 52(8):1947-1972.
- Kojima S. (1991)** Vegetation and environment of the Canadian High Arctic with special reference to Cornwallis Island. – Proceedings of the NIPR Symposium on Polar Biology 4:135-154
- Kojima, S. (1999):** Differentiation of plant communities and edaphic condition in the High Arctic environment, Sverdrup Pass, Ellesmere Island, Canada. – J. of Phytogeography and Taxanomy 47:17-30
- Kojima, S. (1994):** Relationships of vegetation, erath hummocks, and topography in the High Arctic enrionoment of Canada. – Proceedings of the NIPR Symposium on Polar Biology 7:256-269
- Kojima, S. (2006):** Phytosociological classification and ecological characterization of high arctic vegetation of Canada with some remarks in relation to vegetation of Svalbard. – Memoirs of National Institute of Polar Research 59:38-52
- Lambert, J.D.H. (1968):** The ecology and successional trends of tundra plant communities in the Low Arctic subalpine zone of the Richardson and British Mountains of the Canadian Western Arctic. Ph.D. Thesis, Dept. Bot., Univ.of British Columbia, Vancouver, B.C.
- Muc,M., B. Freedman & J. Svoboda (1989):** Vascular plant communities of a polar oasis at Alexandra Fiord (79° N), Ellesmere Island, Canada. – Can. J. Bot. 67:1126-36
- Nams,M.L.N. & B Freedman (1987):**Ecology of heath communities dominated by Cassiope tetragona at alaexandra Fiord, Ellesmere Island, Canada. – Holarct. Ecol. 10:22-32

- Pakarinen, P. & D.H Vitt (1993):** Primary production of plant communities of the Truelove Lowland, Devon island, Canada – Moss communities. – In: Bliss, L. & F. Wielgolaski (eds): Primary production and production processes, Tundra Biome. Edmonton, pp. 37-66
- Rivas-Martinez, S.; D. Sánchez-Matta & M. Costa (1999):** North American Boreal and western temperate forest vegetation. – Itinera Geobotanica 12:5-316
- Sasse, E. & D.Thannheiser (1988):** Die Pflanzengesellschaften der Küstendünen der westlichen kanadischen Arktis. – Hamburger Geogr. Studien 44:193-206
- Schweingruber, F. (1977):** Vegetation studies in the west Canadian tundra central banks Island – Shoran Lake. – Vorgeschichtliche Materialhefte 1:82-104
- Sheard,J.W. & D.W. Geale (1983):** Vegetation studies at Polar Bear Pass, Bathurst Island, N.W.T. – Can. J. Bot. 61:1637-1646.
- Thannheiser, D. (1976):** Beobachtungen zur Küstenvegetation auf dem westlichen kanadischen Arktis-Archipel. – Polarforschung 45(1):1-16
- Thannheiser, D.(1976):** Pflanzensoziologische Beobachtungen zur ufer- und flachmoor-Vegetation auf dem westlichen Arktis-Archipel un auf Spitzbergen. – Trierer Geogr. Studien, Sonderheft 2:207229
- Thannheiser, D. (1979):** Pflanzensoziologische Beobachtungen zur Ufer- und Flachmoor-Vegetation auf dem westlichen Arktis-Archipel und auf Spitzbergen. – Trierer Geogr. Studien, Sonderheft 2:207-258
- Thannheiser, D. (1987):** Die Vegetationszonen in der westlichen kanadischen Arktis. – Hamburger Geogr. Studien 43:159-177
- Thannheiser, D. (1988):** Eine landschaftsökologische Studie bei Cambridge Bay, Victoria Island, N:W:T., Canada. – Mitt. Geographischen Gesellschaft Hamburg 78:1-51
- Thannheiser D. (1989):** Eine landschaftsökologische Detailstudie des Bereichs der Prä-Dorset-Station Umingmak (Banks Island, (Kanada). – Polarforschung 59(1-2):61-78
- Thannheiser, D. & B. Geesink (1990):** Dryasreiche Vegetationseinheiten mit besonderer Berücksichtigung des westlichen kanadischen Arktis-Archipels. – Mitt. Geogr. Ges. Hamburg 80:175-205
- Thannheiser, D. & T. Willers (1988):** Die Pflanzengesellschaften der Salzwiesen in der westlichen kanadischen Arktis. – Hamburger Geogr. Studien 44:207-222
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- Walker, D.A. et al. (2011):** Vegetation of zonal patterned-ground ecosystems along the North America Arctic bioclimatic gradient. – Applied Vegetation Sci. 2011, S.1-24.
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Syntaxonomical survey of Canadian Arctic (Dietbert Thannheiser 2013)

Cl.: Juncetea maritimi Br.-Bl. 1931

Ord.: Glauco-Puccinellietalia Beeft. & Westh. 1968
(= Spergularietalia canadensis Knapp 1964)
All.: Puccinellion phryganodis Hadač 1946
(= Armerion maritimae Br.-Bl. et De Leeuw 1936)
Ass.: Puccinellietum phryganodis Hadač 1946
Ass.: Caricetum subspathaceae Hadač 1946
Ass.: Caricetum ursinae Hadač 1946
Ass.: Puccinellietum pauperculae Blouin et Grandtner 1971
Ass.: Caricetum glareosae de Molenaar 1974
Ass.: Caricetum mackenzei Nordh. 1974

Cl.: Honckenyo peploides-Elymetea arenarii Tx. 1966

Ord.: Honckenyo-Elymetalia (arenarii) Tx 1966
All.: Honckenyo (peploidis)-Elymilion arenarii Galiano 1959
Ass.: Mertensietum maritimae (Nordh. 1940) Thannheiser 1981
Ass.: Honckenyo diffusae-Elymetum mollis (Tx 1970) Thannh. 1983

Cl.: Cakiletea maritimae Tüxen et Preising 1950

Ord.: Cakiletalia edentulae Tüxen 1950
(= Thero-Suadetalia Br.-Bl. et De Bolos 1957 em. Beeftink 1962)
All.: Cakilion edentulae Tüxen 1950
(= Thero-Suaedion Br.-Bl. em Tüxen 1950)
Suaeda calceoliformis com.
Matricaria ambigua com.
All.: Agropyro-Rumicion crispi (Nordhagen 1940) Tüxen 1950
Potentilla egedii com.

Cl.: Thlaspietea rotundifolii Br.-Bl., Emb. & Mol. 1947

Ord.: Thlaspietalia rotundifolii Br.-Bl. ap. Br.-Bl. et Jenny 1926

All.: Papaverion dahlianii Hofm. 1968 ex Daniëls 2013

(Arenarion norvegicae Nordh. 1935)

Ass.: Puccinellietum angustatae Möller 2000

.Ass.: Potentilletum pulchellae Möller 2000

Ass.: Papaveretum radicati Dierß. 1992

Ass.: Armerio-Silenetum acaulis Hadač 1972

Saxifraga oppositifolia com.

Ord.: Androsacetalia alpinae Br.-Bl. ap. Br.-Bl. & Jenny 1926

All.: Saxifrago stellaris-Oxyrion digynae Gjærev. 1950

[= Luzulion arcuatae all. prov. Elveb. 1985, Ranunculo-Oxyrion Nordh.
1936 inkl. Cerastio-Saxifragion cernuae Hartm. 1980]

Ass.: Deschampsietum alpinae (Samuelsson 1913) Nordh. 1943

Ass.: Oxyrio-Trisetetum spicati (Hadač 1946) 1989

**Ass.: Saxifrago-Oxyrietum digynae (Nordh. 1943) Gjærevoll 1950
Festuca rubra ssp. arctica com.**

Ord.: Epilobietalia fleischeri

All.: Epilobion fleischeri

Epilobium latifolium com.

Cl.: Montio-Cardaminetea Br.-Bl. & Tx. 1943 ex Klika & Hadač 1944

Ord.: Montio-Cardaminetalia (Br.-Bl. 1925) Pawl., Sokl. & Wall. 1928

All.: Cardamino-Montion Br.-Bl. 1926

Ass.: Calliergono-Bryetum cryophili Hofm. 1968

Bryum pseudotriquetrum com.

Cl.: Salicetea herbaceae Br.-Bl., Emb. & Mol. 1947

Ord.: **Salicetalia herbaceae Br.-Bl. ap. Br.-Bl. & Jenny 1926**

All.: **Saxifrago-Ranunculion nivalis Nordh. 1943 em. Dierßen 1984**

[= Drepanoclad-Poion alpinae Hadač 1946, *Saxifrago oppositifolio-Oxyrion digynae* Gjærev. 1956 p.p., *Salicion polaris* Du Rietz 1942 n.n., *Ranunculo-Oxyrion* Nordh. 1936, *Salicion pseudopolaris* Lambert 1968]-

Ass.: **Salicetum pseudopolaris Lambert 1968**

Ass.: **Cerastio regelii-Poetum alpinae Dierßen 1992**

Deschampsia brevifolia com.

Suball.: **Luzulenion arcticae (Nordh. 1936) Gjærev. 1950**

[= *Luzulion nivalis* Nordh. 1936, *Ranunculo-Oxyrion* Nordh. 1936 p.p.]

Ass.: **Tomenthypnetum involuti Hadač 1946**

Luzula arctica com.

Ord.: **Salicitalia arcticae Barrett et Krajina 1972**

All.: **Luzulo-Salicion arcticae Barrett et Krajina 1972**

Ass.: **Pogonato-Luzulo-Salicetum arcticae Barrett et Krajina 1972**

Salix arctica com.

Vaccinium uliginosum com.

Arctostaphylos alpines com.

Arctostaphylos rubra com.

Salix reticulata com.

Rhododendron lapponicum com.

Ledum decumbens com.

Saxifraga tricuspidata com.

Oxytropis arctobia com.

Ord.: **Phyllodoco-Cassiopetalia Brooke, Petersen et Krajina 1970**

All.: **Cassiopion tetragonae Barrett et Krajina 1972**

Ass.: **Sphaerophoro-Rhacomitrio-Cassiopetum tetragonae Barrett et Krajina 1972**

Ord.: **Arabidetalia Br.-Bl 1948**

All.: **Phippsion algidae Barrett et Krajina 1968**

Ass.: **Catascopio-Ranunculo-Phippsietum algidae Barrett et Krajina 1968**

Ass.: **Phippsietum algidae-concinnae Nordh. 1943**

Ranunculus pygmaeus com.

Cl.: Scheuchzerio-Caricetea nigrae (Nordh.1936) Tx 1937

Ord.: Scheuchzerietalia palustris Nordh. 1936

(= Arctophiletalia fulvae Lambert 1968)

All.: Caricion lasiocarpa Vanden Berghen ap. Lebrun & al. 1941

(= Eriophorion Prsg. ap. Oberd. 1957, Arctophilion fulvae Lambert 1968)

Ass.: Arctophiletum fulvae (Lambert 1968) Thannh. 1976

Ass.: Eriophoretum angustifoliae Lambert 1968

Ass.: Drepanoclado-Ranunculetum hyperborei Hadač 1989

Pleuropogon sabinei com.

Hippuris vulgaris com.

Ranunculus trichophyllum com.

Ranunculus gmelini com.

Ranunculus hyperboreus com.

Ord.: Caricetalia nigrae (Koch 1926) Nordh.1936 em. Br.-Bl. 1949

All.: Caricion aquatilis Lambert et Krajina 1968

(= Caricion nigrae Koch 1926 em. Klika 1934, Caricion canescens-goodenowii rdh. 1936; inkl.

Eriophorion scheuchzeri Hadač 1939, Drepanocladion exannulati Kranjia 1933, Sphagn(et)o-Tomenthypnion Dahl 1956)

Ass.: Bryo-Dupontietum fisheri (Hadač 1946)

Ass.: Caricetum stantis Barrett et Krajina 1968

Ass.: Carici maritimae-Juncetum baltici Vanden Berghen 1969

Carex physocarpa com.

Carex membranacea com.

Hierochloe pauciflora com.

Ord.: Caricetalia davallianae Br.-Bl. 1949

[= Tofieldietalia Prsg. ap. Oberd. 1949, Drepanoclado-Caricetalia Succow 1974]

All.: Caricion atrofusco-saxatilis Nordh. 1943

Ass.: Calliergonono-Caricetum saxatilis (Nordh. 1928) Dierßen 1982

Carex atrofusca-community

Carex capillaris-Gesellschaft

Carex maritima-Gesellschaft

Ord.: Petasitetalia frigida Lambert et Krajina 1968

All.: Arctagrostidion latifoliae Barrett et Krajina 1968

Ass.: Eriophero-Salico-Arctagrostidetum latifoliae Barrett 1972

Cl.: Carici rupestris-Kobresietea bellardii Ohba 1974

Ord.: Dryadetalia(octopetalae-integrifoliae) Barrett et Krajina 1972

(= *Kobresio-Dryadetalia (Br.-Bl. 1948)* Ohba 1974

All.: Dryadion integrifoliae Ohba ex Daniëls 1982

(= *Dryadion integrifoliae* Barrett et Krajina 1972,

Dryadion integrifoliae Ohba 1974, *Elynion bellardii* Nordh. 1936,

Kobresio-Dryadion Nordh. 1936, *Caricion nardinae* Nordh. 1935)

Ass.:Tetragono-Draydetum integrifoliae Barrett 1972

Ass.: Pedicularo-Dryadetum integrifoliae Barrett et Krajina 1972

Ass.: Rhacomitrio-Oxaryio-Dryadetum Barrett et Krajina 1972

Ass.: Caricetum nardinae Nordh. 1935

- Dryas integrifolia-Saxifraga oppositifolia com.
- Dryas integrifolia-Oxytropis maydelliana com.
- Dryas integrifolia-Cetraria nivalis com.
- Dryas integrifolia-Carex rupestris com.
- Dryas integrifolia-Salix arctica com.
- Dryas integrifolia-Carex misandra com
- Dryas integrifolia-Carex membrancea com.
- Dryas integrifolia-Carex stans com.
- Dryas integrifolia-Astragalus alpinus com.
- Dryas integrifolia-Oxytropis arctobia com.
- Dryas integrifolia-Cetraria delisei com.
- Dryas integrifolia-Kobresia hyperborea com.
- Dryas integrifolia-Oxytropis arctica com.
- Dryas integrifolia-Kobresia myosuroides com.
- Dryas integrifolia-Astragalus richardsonii com.
- Dryas integrifolia-Hedysarum alpinum com.
- Dryas integrifolia-Hedysarum mackenzii com.
- Dryas integrifolia-Salix reticulate com.
- Dryas integrifolia-Schistidium apocarpon com.
- Dryas integrifolia-Cassiope tetragona com.
- Dryas integrifolia-Salix polaris com.

- *Kobresia hyperborean* com.
- *Kobresia myosuroides* com.
- *Oxytropis arctica* com.
- *Astragalus alpine* com.
- *Oxytropis arctobia* com
- *Saxifraga tricuspidata-* com.
- *Puccinellia angustata* com.
- *Puccinellia agrostidea* com.
- *Potentilla rubricaulis* com.
- *Koenigia islandica* com.
- *Potentilla vahliana* com.

Cl.: Nardo-Callunetea Prsg. 1949

[Calluno-Ulicetea Br.-Bl. & Tx. 1943]

Ord.: Nardetalia strictae Oberd. 1949 ex Prsg. 1949

All.: Nardo-Caricion bigelowii Nordh. (1936) 1943

[incl. Deschampsio-Anthoxanthion Du Rietz 1942]

Ass.: Cetrarietum delisei (Resvoll-Holmen 1920) Dahl 1956

Ass.: Caricetum bigelowio-lachenelii Nordh. 1943

Ord.: Alectorietalia Barrett et Krajina 1972

All.: Dryado-Alectorian Barrett et Krajina 1972

Ass.: Nardino-Dryado-Alectorietum Barrett et Krajina 1972

Cl.: Cetrario-Loiseleurietea Suz.-Tok. & Umezu 1964

Ord.: Cetrario-Loiseleurietalia Suz.-Tok. & Umezu 1964

All.: Loiseleurio-Diapension (Br.-Bl., Siss. & Vlg. 1939) Daniëls 1982

Empetrum nigrum ssp. hermaphroditum com

Ord.: Ledo decumbentis-Betuletalia glandulosae Rivas-Martinez, S., D. Sánchez-Mata & M. Costa 1999

All.: Salici pulchrae-Betuletion glandulosae Rivas-Martinez, S., D. Sánchez-Mata & M. Costa 1999

Ass.: Vaccinio microphylli-Betuletum glandulosea Rivas-Martinez, S. D. Sánchez-Mata & M. Costa 1999

•Vegetationtypes of the western Canadian Arctic Archipelago

- (incl. 1916 relevés from Dietbert Thannheiser Hamburg/Münster)

•Saltmarshes

- 1.*Puccinellietum phryganodis* 46 relevés
- 2.*Caricetum subspathaceae*) 36 relevés
- 3. *Caricetum ursinae* 34 relevés
- 4. *Caricetum glareosae* 8 relevés
- 5. *Caricetum mackenzei* 8 relevés
- 6. *Puccinellietum pauperculae* 5 relevés
- 7. *Puccinellia andersonii* community 6 relevés

•Coastal dune vegetation

- 1. *Mertensietum maritimae* 13 relevés
- 2. *Honckenyo diffusae-Elymetum mollis* 42 relevés

•Tidal mark vegetation

- 1. *Suaeda calceoliformis* community 5 relevés
- 2. *Matricaria ambigua* community 10 relevés
- 3. *Potentilla egedii* community 5 relevés

•Freshwater and litoral vegetation

- 1. *Arctophiletum fulvae* (Lambert 1968) Thannheiser 1976 41 relevés
- 2. *Hippuris vulgaris* community 10 relevés
- 3. *Pleuropogon sabinei* community 15 relevés
- 4. *Ranunculus hyperboreus* community 13 relevés
- 5. *Ranunculus trichophyllum* community 5 relevés
- 6. *Ranunculus gmelini* community 10 relevés

•Moss vegetation along water runnels

- 1. *Bryum pseudotriquetrum*-community 8 relevés
- 2. *Bryum cryophilum* com. 5 relevés

- Mire vegetation

- 1. *Bryo-Dupontietum fischeri* 60 relevés
- 2. *Carex atrofusca* community 19 relevés
- 3. *Eriophorum triste*-community 9 relevés
- 4. *Caricetum stantis* Barret & Krajina 1972 108 relevés
- 5. *Carex physiocarpac* community 39 relevés
- 6. *Carex membranacea* community 47 relevés
- 7. *Hierochloe pauciflora* community 6 relevés
- 8. *Carex saxatilis* community 5 relevés

- Vegetation on alluvial gravel and stone fields

- *Epilobium latifolium* community 20 relevés

- Discontinuous tundra vegetation (barrens)

- 1. *Oxytropis arctobia* community 17 relevés
- 2. *Saxifraga tricuspidata* community 49 relevés
- 3. *Saxifraga oppositifolia* cmmunity 16 relevés
- 4. *Puccinellia angustata* com. 13 relevés
- 5. *Puccinellia agrostidea* com 19 relevés
- 6. *Potentilla rubricaulis* com. 6 relevés
- 7. *Koenigia islandica* com. 5 relevés
- 8. *Potentilla vahliana* com. 11 relevés
- 9. *Salix arctica* community 35 relevés

- Snowbed vegetation

- 1. *Salix polaris* community 47 relevés
- 2. *Deschampsia brevifolia* community 15 relevés
- 3. *Cassiope tetragona* community 57 relevés
- 4. *Ranunculus pygmaeus* community 8 relevés
- 5. *Cetraria delisei* community 5 relevés
- 6. *Phippsia algida* community 6 relevés
- 7. *Cerastio regelii-Poetum alpinae* 7 relevés
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Grass heaths

- 1a. *Carex rupestris* community 59 relevés
- 1b *Carex rupestris-Dryas integrifolia* com. 11 relevés
- 2. *Kobresia myosuroides* community 50 relevés
- 3. *Kobresia hyperborea* community 16 relevés
- 4. *Carcietum nardinae* 7 relevés

Dryas heaths

- 1. *Dryas integrifolia-Saxifraga oppositifolia* com. 105 relevés
- 2. *Dryas integrifolia-Oxytropis maydelliana* com. 30 relevés
- 3. *Dryas integrifolia-Cetraria nivalis* community 55 relevés
- 4. *Dryas integrifolia-Carex rupestris* community 71 relevés
- 5. *Dryas integrifolia-Salix arctica* community 22 relevés
- 6. *Dryas integrifolia-Carex misandra* community 40 relevés
- 7. *Dryas integrifolia-Carex membranacea* com. 8 relevés
- 8. *Dryas integrifolia-Carex stans* community 26 relevés
- 9. *Dryas integrifolia-Astragalus alpinus* com. 27 relevés
- 10. *Dryas integrifolia-Oxytropis arctobia* com. 29 relevés
- 11. *Dryas integrifolia-Cetraria delisei* community 11 relevés
- 12. *Dryas integrifolia-Kobresia hyperborea* com. 5 relevés
- 13. *Dryas integrifolia-Oxytropis arctica* community 17 relevés
- 14. *Dryas integrifolia-Kobresia myosuroides* com. 15 relevés
- 15. *Dryas integrifolia-Astragalus richardsonii* com. 5 relevés
- 16. *Dryas integrifolia-Hedysarum alpinum* com. 18 relevés
- 17. *Dryas integrifolia-Hedysarum mackenziae* om. 9 relevés
- 18. *Dryas integrifolia-Salix reticulata* community 11 relevés
- 19. *Dryas integrifolia-Schistidium apocarpon* com.. 5 relevés
- 20. *Dryas integrifolia-Cassiope tetragona* com. 7 relevés
- 21. *Dryas integrifolia-Salix polaris* community 12 relevés
- 22. *Oxytropis arctica* community 5 relevés
- 23. *Astragalus alpine* community 10 relevés

Moss heaths

- . *Rhacomitrium lanuginosum*-com. 9 relevés .
- *Tomentypnum nitens*-com. 11 relevés

Lichen heaths

- *Cetrarietum nivalis* 5 relevés

- **Dwarf shrub tundras**

- 1. *Vaccinium uliginosum* community 13 relevés
- 2. *Arctostaphylos alpinus* community 5 relevés
- 3. *Salix arctica* community 30 relevés
- 4. *Arctostaphylos rubra* community 30 relevés
- 5. *Salix reticulata* community 13 relevés
- 6. *Rhododendron lapponicum* com. 5 relevés
- 7. *Empetrum nigrum* community 10 relevés
- 8. *Ledum decumbens* community 5 relevés

- **Shrub vegetation**

- 1. *Salix lanata* ssp. *Richardsonii* com. 18 relevés
- 2. *Salix alaxensis* community 16 relevés
- 3. *Betuletum glandulosae* 7 relevés

- **Anthropogenous and zoogenous vegetation**

- **Anthropogenous vegetation**

- 1. *Puccinellia vaginata* community 21 relevés
- 2. *Descuriana sophioides* community 17 relevés
- 3. *Puccinellia deschampsoides* com. 6 relevés
- 4. *Matricaria matricaroides* com. 7 relevés
- 5. *Puccinellia borealis* community 24 relevés
- 6. *Senecio congestus* community 6 relevés
- 7. *Poa alpigenac* community 5 relevés

- **Zoogenous vegetation (Bird cliffs and weasel dens)**

- 1. *Festuca rubra* ssp. *Richardsonii* community 5 relevés
- 2. *Poa glauca* community 14 relevés
- 3. *Alopecurus alpinus* community 5 relevés
- 4. *Puccinellia andersoniic* ommunity 5 relevés