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Norwegian Vegetation Types. A Preliminary Survey of Higher Syntaxa

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Norwegian Vegetation Types. A Preliminary Survey of Higher Syntaxa

- Odd Vevle -

ZUSAMMENFASSUNG

In einer vorläufigen Übersicht werden die norwegischen Vegetationstypen dem BRAUN-BLANQUET-schen System zugeordnet. Die Zusammenstellung stützt sich auf norwegische Arbeiten, eigene Erfahrungen im Gelände, sowie auch auf mitteleuropäische Lehrbücher und Publikationen. Durch wertvolle Anregungen und Diskussionen mit Kollegen wurde die Liste ergänzt. Diese erste Fassung (noch z.T. hypothetisch) umfasst 42 Klassen, 73 Ordnungen und etwa 140 Verbände.

SUMMARY

In a preliminary phytosociological survey the Norwegian vegetation types are placed into the floristic-sociological BRAUN-BLANQUET system. The list has been compiled on the basis of Norwegian publications, the author's field experience as well as the systems in foreign textbooks and publications. The survey has also been greatly influenced by discussions and advice from colleague phytosociologists. The present system (partly hypothetical) comprises 42 classes, 73 orders and approximately 140 alliances.

INTRODUCTION

During the last decade the Norwegian vegetation types have been comprehensively surveyed several times for practical purposes, i.e. for vegetation mapping in the scales 1: 5000 to 1: 20000 (WIELGOLASKI 1971, MARKER 1973, HESJEDAL 1973, 1975, Nordiska Ministerradet 1980). The mapping units are based on phytosociological units. Only a few phytosociological monographs have been published, e.g. Utsire, Sylene and Skilsdalen (NORDHAGEN 1923, 1928, 1943), Rondane (DAHL 1956) and Langøya (MARKER 1969). Some groups of vegetation types have been studied in detail in more or less restricted areas, the classical works being those concerning the alpine and subalpine vegetation (NORDHAGEN 1936, 1943), the forests (AUNE 1973, BJØRNSTAD 1971, DAHL et al. 1967, KIELLAND-LUND 1962, 1967, 1973, 1981), the snowbed communities (GJAEREVOLL 1956), the seashore communities (DAHL & HADAČ 1941, HØYLAND 1978, NORDHAGEN 1940, TUXEN 1967) and the thermophilous dry meadows (SUNDING 1963, 1965). The mires have been treated in different works by NORDHAGEN (mentioned above) and recently in several papers by DIERSSEN (1980, 1982b).

The lack of overall phytosociological system seems to have been the reason for R. TUXEN's considerations "Wir sind davon überzeugt, daß das pflanzensoziologische System auch eine brauchbare Grundlage für die geographische Betrachtung der Vegetation Skandinaviens im vielseitigsten und umfassendsten Sinne schaffen wird" (TUXEN 1951: 150). In my opinion too little emphasis has been laid upon the compilation of existing knowledge into an overall countrywide system. So TUXEN's considerations still seem to be valid. The present paper shows a very preliminary system where Norwegian vegetation types are placed in higher syntaxa.

AIMS

The syntaxonomical classification of vegetation types seems to be useful and valuable for several different reasons, so the aims of this paper may be linked to several keywords.

Syntaxonomy. For biological sciences the BRAUN-BLANQUET system has been said to be of the same importance as the Linnean binomial system for taxonomy.

Teaching. For the teaching of geobotany on different levels of education the systematical arrangement of knowledge, and the definition of terms on different levels have been found relevant and useful.

Communication. The survey has also been made for the benefit of international communication pertaining to international nature conservation where Norway is concerned.

Mapping systems. Phytosociological units have been - and will be - applied in large scale vegetation mapping. Standardization of code systems will facilitate the use of vegetation maps in planning. These lists (and the list of lower units (VEVLE 1983a)) intend to give some ideas to the standardization of the (Norwegian) system.

"Zeigerwerte", species sociological behaviour. The survey or its 2nd ed. will be used as a basis for the evaluation of the Norwegian species sociological behaviour.

Nature conservation. This list and the list of associations in VEVLE 1983a is also intended to be the basis for the future investigations preparing "Red list of plant communities".

METHOD

The list has been compiled on the basis of literature and the author's field experience. Some Norwegian publications have been mentioned above, others have been referred in VEVLE 1983b. Field experience comprises large scale vegetation mapping (e.g. HOFSTEN & VEVLE 1982, HJELTNES & VEVLE 1982, VEVLE 1982), teaching phytosociology and mapping which have revealed the need of improved classification systems. Therefore a number of foreign textbooks and publications have been studied, e.g. BIRSE (1980), DIERSSEN (1982a), ELLENBERG (1978), HOLUB et al. (1967), MATUSZKIEWICS (1979), OBERDORFER (1977/1978, 1979), PASSARGE (1978), RUNGE (1980), TUXEN (1937), WESTHOFF & DEN HELD (1969) and WILMANNS (1978). In addition other publications dealing with classes or minor groups of vegetation have given valuable information and ideas concerning the taxonomical position of orders and alliances. The arrangement of classes in classgroups (no more than 9 in each), and the decimal numbers of the syntaxa have been adopted from ELLENBERG (1978, 1979) in order to prepare electronic data processing (EDP) of the species "Zeigerwerte", including their sociological behaviour (ELLENBERG 1979: 42).

INCLUDED SYNTAXA

The lists include syntaxa which have been described or reported (in tables) from Norway, and some units which are supposed to comprise Norwegian vegetation types. Some S Scandinavian units are also included. The lists comprise some classes of which the Norwegian communities have been studied and classified in great detail (e.g. *Vaccinio-Piceetea*, *Querceto-Fagetea*, *Oxycocco-Sphagnetea*, *Schucheria-Caricetea*) as well as some syntaxa which are highly in the need of further investigations (e.g. *Charetea fragilis*, *Molinio-Arrhenatheretea*, *Artemisietea vulgaris* etc.), and some Southern syntaxa (on different levels) which are distributed at least to S Scandinavia (e.g. *Saginetea maritima*, *Centauretalia cyani*, *Onopordion*, *Dauco-Melillition*, *Parietarietea*, *Stipetalia calamagrostis*, *Corynephoretalicia* and *Festucetalia valesiacae*).

DISCUSSION AND COMMENTS

The above mentioned (C European) textbooks and publications show some disagreement concerning the number and the contents of the syntaxa, in classes as well as on lower levels. In most cases this list keeps a conservative - (and less controversial?) view. The hypothetical feature of this list implies the fact that in many Norwegian tables the alphabetical listing of species conceal the true species combination of the communities (TUXEN 1951: 171). The characteristic, differential and additional species as well as the associations and lower units have been listed in separate papers (VEVLE 1983a, b). So if these hypothesis should be tested the Norwegian phytosociologists should take care to make (proper relevees and) tables according to the synthetic steps of the BRAUN-BLANQUET method (WILMANNS 1978: 27 ff.). Because of the scarce or even lacking (proper) investigations some of the classes have been surveyed with great uncertainty, e.g. *Isoeto-Nanojuncetea*, *Stellarietea*, *Artemisietea*, *Asplenietea*, *Thlaspietea rotundifolii*, *Koelerio-Corynephoretalicia* (p.p.), *Molinio-Arrhenatheretea* and *Nardo-Callunetea* (p.p.).

In a recent survey on the most important Norwegian vegetation types SUNDING (1978) reports on 71 alliances and their most common associations. The present list shows a higher diversity approximately 140 alliances, including some S Scandinavian ones which do not reach Norway. However, the phytosociological knowledge of these alliances is still far from sufficient, so a lot of tasks are awaiting. For the benefit of some of the aims mentioned above the future investigations should be concentrated upon chorological aspects and the hitherto least known communities (see above).

ACKNOWLEDGEMENTS

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List 1: SURVEY ON CLASSGROUPS AND CLASSES

1. VEGETATION IN AND NEAR FRESHWATER	
1.1 Floating communities of lemnids and wolfiellids	<i>Lemnetea minoris</i>
1.2 Communities of dwarf plants, on wet soil	<i>Isoeto-Nanojuncetea</i>
1.3 Communities of nitrophilous, mainly annual species	<i>Bidentetea tripartiti</i>
1.4 Communities of charophytes	<i>Charetea fragilis</i>
1.5 Communities of bladderworts	<i>Utricularieteae intermedio-minorae</i>
1.6 Communities nymphaeids and potamids	<i>Potometea pectinata</i>
1.7 Litoral communities of isoetids	<i>Littorelletea uniflorae</i>
1.8 Communities of helophytes	<i>Phragmitetea</i>
2. VEGETATION IN SPRINGS AND MIRES	
2.1 Communities of springs	<i>Montio-Cardaminetea</i>
2.2 Communities of fens	<i>Scheuchzerio-Caricetea fuscae</i>
2.3 Communities of bogs and wet heaths	<i>Oxycocco-Sphagnetea</i>
3. VEGETATION OF SEASHORES	
3.1 Sublitoral communities of seagrass	<i>Zosteretea mariniae</i>
3.2 Hydrolitoral communities of potamids and isoetids	<i>Ruppitea maritimae</i>
3.3 Communities of Salicornia spp.	<i>Thero-Salicornietea</i>
3.4 Comm.of perennial,nitroph. spec. on shingle beaches	<i>Honkenyo-Elymetea</i>
3.5 Comm.of annual,nitroph. spec. on sand and shingle	<i>Cakiletea maritimae</i>
3.6 Comm. of lowgrowing salt-tolerant spec.	<i>Saginetea maritimae</i>
3.7 Comm. of salt-tolerant helophytes	<i>Bolboschoenetea maritimae</i>
3.8 Meadows rich in graminids	<i>Asteretea tripoli</i>
4. COMMUNITIES OF DISTURBED PLACES	
4.1 Trampling comm., mainly annual spec.	<i>Polygono-Poetea annuae</i>
4.2 Agricultural comm., mainly annual spec.	<i>Stellarietea mediae</i>
4.3 Communities of nitrophilous, perennial weeds	<i>Artemisietea vulgaris</i>
5. COMM. OF WALLS, ROCK AND THE ALPINE ZONE	
5.1 Communities of wall crevices	<i>Parietarietea judaica</i>
5.2 Comm. on soils rich in heavy metals (Cu, Zn, Pb)	<i>Violetea calaminariae</i>
5.3 Comm. of small farms, in rock crevices	<i>Asplenietea trichomanis</i>
5.4 Comm. of unstable mineral soil	<i>Thlaspietea rotundifolii</i>
5.5 Windswept ericaceous and grass heaths, alpine zone	<i>Junsetea trifidii</i>
5.6 Comm. of calcareous heaths, alpine zone	<i>Carici rupestris-Kobresietea bellardii</i>
5.7 Comm. of the snowbeds	<i>Salicetea herbaceae</i>
5.8 Comm. of low alpine shrub- and ericaceous heath	<i>Vaccinio-Piceetea p.p.</i>
6. VEGETATION ON SAND, SHALLOW SOIL, MEADOWS AND HEATH	
6.1 Marram comm. on eolian sand	<i>Ammophiletea arenariae</i>
6.2 Comm. on stable sand and shallow soil	<i>Koelerio-Corynephoretea</i>
6.3 Thermoph. dry meadows of geo- and hemi-cryptophytes	<i>Festucio-Brometea</i>
6.4 Anthrcopogoneous meadows	<i>Molinio-Arrhenatheretea</i>
6.5 Lowland heaths and grassland	<i>Nardo-Callunetea</i>
7. FOREST RIMS, CLEARINGS AND SHRUBS	
7.1 Communities of forest rims	<i>Trifolio-Ceranietea</i>
7.2 Communities of forest clearings	<i>Galeopipio-Senecionetea sylvatici</i>
7.3 Eutrophic subalpine comm. of forests and shrubs	<i>Betulo-Adenostyletea</i>
7.4 Shrubs, anthropogeneous or climatically influenced	<i>Rhamno-Prunetea</i>
8. FORESTS	
8.1 Coniferous forests	<i>Vaccinio-Piceetea p.m.p.</i>
8.2 Alluvial willow shrubs and forests	<i>Salicetea purpureae</i>
8.3 Alder swamp forests	<i>Alnetea glutinosae</i>
8.4 Thermophilous deciduous forests	<i>Quercio-Fegatea</i>

List 2: SURVEY ON CLASSES, ORDERS AND ALLIANCES

1. COMMUNITIES IN AND NEAR FRESHWATER

- 1.1 *LEMMNETEA MINORIS* Koch et Tx. ap. Tx. 1955
 1.11 *Lemnetalia minoris* Tx. 1955
 1.111 *Lemnion minoris* Tx. 1955

- 1.2 *ISOETO-NANOJUNCETEA* Br.-Bl. et Tx. 1943
 1.21 *Cyperetalia fusca* Pietsch 1963
 1.211 *Elatino-Eleocharition ovatae* Pietsch 1965
 1.212 *Radionion linoideae* Pietsch 1965
 1.213 *Eu-Nanocyperion flavescentis* Koch 1926 em. R. God. 1961
 1.214 Boreal alliance ???

- 1.3 *BIDENTETEA TRIPARTITI* Lohm., Prsg. et Tx. ap. Tx. 1950
 1.31 *Bidentetalia triparti* Br.-Bl. et Tx. 1943
 1.311 *Bidention tripartiti* Nordh. 1940
 1.312 *Chenopodium rubri* J. Tx. ap. Poli et J. Tx. 1960
- 1.4 *CHARETEA FRACILIS* (Fukarek 1961) Krausch 1964
 1.41 *Nitellietalia flexilis* Krause 1969
 1.411 *Nitellion flexilis* (Corill. 1957) Krause 1969
 1.42 *Charetalia hispidae* Sauer 1937
 1.421 *Charion asperae* Krause 1969
 1.422 *Charion canescens* Krause 1968
- 1.5 *UTRICULARIEtea INT.-MIN.* DenHart et Seg. 1964 em. Pietsch 1965
 1.51 *Utricularia etalia intermedio-minoris* Pietsch 1965
 1.511 *Utricularion intermedio-minoris* Pietsch 1977
 1.512 *Sphagno-Utricularion* (Müller et Görs 1960) Pietsch 1977
 1.513 *Scorpidio-Utricularion* Pietsch 1964
- 1.6 *POTAMETEA PECTINATI* Tx. et Prsg. 1942
 1.61 *Potametalia pectinata* Koch 1926
 1.611 *Nymphaeion albae* Oberd. 1967
 1.612 *Potamion pectinata* Koch 1926 em. Oberd. 1967
 1.613 *Hydrocharition* Rübel 1933 em. Pass. 1964
 1.62 *Callitricho-Batrachion* (DenHart et Seg. 1964) Pass. 1978
 1.621 *Batrachion fluitantis* Neuhäusl 1959
 (incl. *Calitricho-Batrachion* DenHart. et Seg. 1964 p.p.)
- 1.7 *LITTORELLETEA UNIFLORA* Br.-Bl. et Tx. 1943
 1.71 *Littorella etalia* Koch 1926
 1.711 *Subulario-Isocetion* (Nordh. 1936) Pietsch 1977
 1.712 *Lobelio-Isocetion* Pietsch 1965
 1.713 *Eu-Littorellion uniflorae* Koch 1926 s. str. Pietsch 1977
 1.714 *Eleocharition multicaulis* Pietsch 1965
- 1.8 *PHRAGMITTEA AUSTRALIS* Tx. et Prsg. 1942
 1.81 *Phragmitetalia* Koch 1926
 1.811 *Phragmition* Koch 1926
 1.812 *Magnocaricion elatae* Koch 1926
 1.82 *Sparagano-Glycero-erietalia* Pign. 1953
 1.821 *Glycerio-Sparganion* Br.-Bl. et Siss. ap. Boer 1942
 1.822 Boreal alliance ???
2. COMMUNITIES IN SPRING AND MIRES
 2.1 *MONTIO-CARDAMINETEA* Br.-Bl. et Tx. 1943
 2.11 *Montio-Cardaminetalia* Pawl. 1928
 2.111 *Cardaminio-Montion* Br.-Bl. 1925
 2.111.1 (incl. *Mniobryo-Epilobion homemannii* Nordh. 1936)
 2.112 *Cratoneuron commutatum* Koch 1928
 2.112.1 (incl. *Cratoneuro-Saxifragion aizoidis* Nordh. 1936)
- 2.2 *SCHEUCHZERIO-CARICETEA FUSCAE* (Nordh. 1936) Tx. 1937
 2.21 *Scheuchzeria etalia palustris* Nordh. 1936
 2.211 *Rhynchosporion albae* Koch 1926
 (incl. *Stygio-Caricion limosae* Nordh. 1936)
 2.212 *Caricion lasiocarpae* VandenBerghen ap. Lebrun et al. 1949
 2.22 *Caricetalia nigrae* (Koch 1926) Nordh. 1936 em. Br.-Bl. 1949
 2.221 *Caricion nigrae* Koch 1926 em. Klika 1944
 (incl. *Caricion canescens-fuscaec* Nordh. 1936)
 2.23 *Caricetalia davalliana* Br.-Bl. 1949
 (incl. *Schoenion nigricantis* Nordh. 1936, *Eriophorion latifolii* Br.-Bl. et Tx. 1943, *Sphagno-Tomentypnion* (Dahl 1956) Rybníček 1964)
 2.231 *Caricion davallianae* Klika 1934
 (incl. *Schoenion nigricantis* Nordh. 1936, *Eriophorion latifolii* Br.-Bl. et Tx. 1943, *Sphagno-Tomentypnion* (Dahl 1956) Rybníček 1964)
 2.232 *Caricion bicoloris-atrofuscace* Nordh. 1936
 (incl. *Caricion atrofuscace-saxatilis* Nordh. 1943)
- 2.3 *OXYCOCO-SPHAGNETEA* Br.-Bl. et Tx. 1943
 2.31 *Sphagnetalia magellanica* Br.-Bl. et Tx. 1943
 (incl. *Ledetalia palustris* Nordh. 1936 p.p.)

- 2.311 *Oxyocco-Empetrio hermaphroditii* Nordh. 1936
(incl. *Sphagnion fuscum* auct.)
- 2.322 *Eriophyio-Sphagnetalia* Schwick. 1940 em. Br.-Bl. 1949
(incl. *Eriotalia tetralicis* Moore 1968, *Sphagnetalia compacti* Tx. et al. 1972)
- 2.321 *Oxyocco-Ericion tetralicis* Moore 1968
- 2.322 *Eriocion tetralicis* Schwick. 1933
- 3. VEGETATION OF SEASHORES**
- 3.1 *ZOSTERETEA MARINAEE* Pign. 1953
- 3.11 *Zosteretalia mariniae* Beguinot 1941 em. Tx. et Oberd. 1958
- 3.111 *Zosterion mariniae* Br.-Bl. et Tx. 1943
- 3.2 *RUPPIETEA MARITIMAE* J. Tx. 1960
- 3.21 *Ruppietalia maritimae* J. Tx. 1960
- 3.211 *Ruppion maritimaee* Br.-Bl. 1931 em. DenHart. et Seg. 1964
- 3.22 *Eleocharietalia parvulae* (Lobb. 1940) Seg. 1965
- 3.221 *Eleocharition parvulae* (Lobb. 1940) Seg. 1968
- 3.3 *THERO-SALICORNIEA* Pign. 1953 em. Tx. 1955
- 3.31 *Thero-Salicornietalia* Pign. 1953 em. Tx. 1955
- 3.311 *Thero-Salicornion strictae* Br.-Bl. 1933
(incl. *Salicornion ramosissimae* Tx. 1974)
- 3.4 *HONKENYEO-ELYMETEA ARENARII* Tx. 1966
- 3.41 *Honkenyoe-Elymetalia* Tx. 1966 em. Géhu et Tx. ap. Géhu 1975
- 3.411 *Honkenyeo-Elymion* (Galiano 1959) Tx. 1966
- 3.412 *Honkenyoe-Crambion* J.-M. et J. Géhu 1969
- 3.5 *CAKILETEA MARITIMAE* Tx. et Prsg. ap. Tx. 1950
- 3.51 *Thero-Suedetalia* Br.-Bl. et Bolós 1957
- 3.511 *Thero-Suaedion* Br.-Bl. 1931 em. Tx. 1950
- 3.52 *Cakiletalia maritimae* Tx. ap. Oberd. 1949
- 3.521 *Salolo-Honkenyoyloppeloidis* Tx. 1950
- 3.522 *Atriplicion litoralis* (Nordh. 1940) Tx. 1950
- 3.6 *SAGINETEA MARITIMAE* Westh. et al. 1962
- 3.61 *Saginetalia maritimae* Westh. et al. 1962
- 3.611 *Saginon maritimaee* Westh. et al. 1962
Boreal alliance ???
- 3.7 *BOLBOSCHOENETEA MARITIMI* Tx. et Hüb. 1971
- 3.71 *Bolboschoenetalia* Hejny 1962
- 3.711 *Scirpion maritimi* Dahl et Hadac 1941
- 3.712 *Caricion paleaceae* Dahl et Hadac 1941 em. Tx. et Hüb. 1971
- 3.8 *ASTERETEA TRIPOLII* Westh. et al. 1962
- 3.81 *Caricet-Puccinellietalia* Beeft. et Westh. ap. Beeft. 1965
- 3.811 *Puccinellion phryganodis* Hadac 1946
- 3.812 *Caricion glareosae* Nordh. 1954
- 3.82 *Glaucet-Puccinellietalia* Beeft. et Westh. ap. Beeft. 1962
- 3.821 *Puccinellion maritimae* Christians. 1927
- 3.822 *Armerion maritimaee* Br.-Bl. et De Leeuw 1936
- 3.823 *Eleocharition uniglumis* auct.
- 4. COMMUNITIES OF DISTURBED PLACES**
- 4.1 *POLYGONO-POETEA ANNUAE* Riv.-Mart. ap. Géhu 1973
- 4.11 *Polygono-Poetalia annuae* Riv.-Mart. ap. Géhu 1973
- 4.111 *Polygonion avicularis* Br.-Bl. ex Aichinger 1933
(incl. *Matria-Polygonion* (Br.-Bl. 1931) Riv.-Mart. 1975)
- 4.2 *STELLARIETEA MEDIAE* Tx. et al. ap. Tx. 1950
- 4.21 *Chenopodieta latifoliae* Lohm. ap. Tx. et Lohm. ap. Tx. 1950
(*Polygono-Chenopodiatalia* auct.)
- 4.211 *Polygono-Chenopodion polyspermi* Koch 1926 em. Siss. 1946
(incl. *Funario-Euphorbion*)
- 4.22 *Sisymbrietalia* J. Tx. ap. Lohm. et al. 1962
- 4.221 *Sisymbrium officinale* Tx. et al. ap. Tx. 1950
- 4.23 *Centaurietalia cyanii* (Tx. 1937) Tx. et al. ap. Tx. 1950
- 4.231 *Aperion spicae-venti* Tx. 1950 em. J. et R. Tx. 1960

- 4.3 ARTEMISIETEA VULGARIS Lohm. et al. ap. Tx. 1950
 4.31 *O n o p o r d e t a l i a a c a n t h i i* Br.-Bl. et Tx. 1943
 (incl. *Artemisietalia vulgaris* Lohm. et al. ap. Tx. 1950)
 4.311 *Onopordion acanthii* Br.-Bl. 1926
 4.312 *Arction lappae* Tx. 1937 em. Siss. 1946
 4.313 *Dauco-Melilotion* Görs 1966
 4.32 *C o n v o l u c e t a l i a s e p i i* Tx. 1950 em. Oberd. et al. 1967
 4.321 *Calystegion sepii* Tx. 1947
 4.322 *Agropyro-Rumicition crispi* Nordh. 1940 p.p. ???
 4.33 *A g r o p y r o - G l e c h o m e t a l i a* (Dierschke 1974) Tx. 1975
 (*Calystegio-Aliliarietalia*)
 4.331 *Geo-Aliliarion* Oberd. (1957) 1962
 (incl. *Lapsano-Geranion robertianii* Siss. 1973)
 4.332 *Aegopodium podagrariae* Tx. 1967
5. COMMUNITIES OF WALLS, ROCK AND OF THE ALPINE ZONE
 5.1 PARIETARIETEA JUDAICAE Riv.-Mart. ap. Riv. God. 1955 em. Oberd. 1969
 (syn. *Cymbalaria-Parietarietea* Oberd. 1969)
 5.11 *P a r i e t a r i e t a l i a j u d a i c a e* Riv.-Mart. 1960 em. Oberd. (1970) 1977
 5.111 *(Centrantho-Parietario* Riv.-Mart. 1960)
- 5.2 VIOLETEA CALAMINARIAE Tx. ap. Lohm. et al. 1962
 5.21 *V o l e t a l i a c a l a m i n a r i a e* Br.-Bl. et Tx. 1943
 5.211 *Thlaspium alpestre* Ernst 1965
- 5.3 ASPLENIETEA TRICHOMANIS Br.-Bl. ap. Meier et Br.-Bl. 1934
 5.31 *P o t e n t i l e t a l i a c a u l e s c e n t i s* Br.-Bl. ap. Br.-Bl. et Jenny 1926
 (incl. *Asplenietalia ruta-murariae*)
 5.311 *Potentillio caulescens* Br.-Bl. ap. Br.-Bl. et Jenny 1926
 (incl. *Asplenion ruta-murariae* Gams 1936)
 5.312 *Cystopteridion* (Nordh. 1936) J.L. Rich. 1972
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 5.32 *A n d r o s a c e t a l i a v a n d e l l i i* Br.-Bl. ap. Meier et Br.-Bl. 1934
 (incl. *Asplenietalia septentrionalis* Oberd. et al. 1967)
 5.321 *Androsacum vandellii* Br.-Bl. ap. Br.-Bl. et Jenny 1926
 (incl. *Asplenion septentrionalis* Gams 1927)
 (incl. *Saxifragion cotyledonis* Nordh. 1943)
 5.322 *Asplenion serpentini* Br.-Bl. et Tx. 1943
 (incl. *Asplenion viride* Nordh. 1936 p.p. sensu Rune 1953)
 5.323 *Asplenion marinæ* Seg. 1969
- 5.4 THLASPIETEA ROTUNDIFOLII Br.-Bl. et Tx. 1943
 5.41 *A n d r o s a c e t a l i a a l p i n a e* Br.-Bl. ap. Br.-Bl. et Jenny 1926
 5.411 *Androsacum alpinæ* Br.-Bl. ap. Br.-Bl. et Jenny 1926
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 (incl. *Oppositifolio-Oxyrrion* Gjaerev. 1956)
 5.413 Ass.-group on sedimentation planes, low/middle alpine zone
 5.42 *D r a b e t a l i a a h o p p e a n a e* Zollitsch 1966
 5.421 *Luzulion arcticae* (Nordh. 1936) Gjaerev. 1956 ?? here?
 5.422 *Potentillo crantzii-Polygonion vivipari* Nordh. 1936 p.p.
 5.423 Subalpine ass. group ???
 5.43 *T h l a s p i e t a l i a r o t u n d i f o l i i* Br.-Bl. et Jenny 1926 em. Seib. 1977
 5.431 *Thlaspium rotundifolii* Br.-Bl. et Jenny 1926 em. Zollitsch 1966
 (incl. *Arenariion norvegici* Nordh. 1936 p.p.)
 (incl. *Veronica fruticantis-Poion glaucae* Nordh. 1943 p.p.)
 5.432 *Arabidion coeruleales* Br.-Bl. ap. Br.-Bl. et Jenny 1926
 5.44 *S t i p e t a l i a c a l a m a g r o s t i e* Oberd. et Seib. ap. Oberd. 1977
 5.441 *Stipion calamagrostis* Jenny-Lips 1930
 5.442 Boreal ass.-group ???
 5.45 *E p i l o b i e t a l i a f l e i s c h e r i* Moore 1958
 (incl. *Myricarietalia germanicae* Br.-Bl. 1931)
 5.451 *Epilobion fleischeri* Br.-Bl. ap. J. et G. Br.-Bl. 1951
- 5.5 JUNCETEA TRIPIDII Klika ap. Klika et Hadáč 1944
 5.51 *L o i s e l e u r i o - C e t r a r i e t a l i a* Suzuki-Tokio et Umez 1964
 5.511 *Arctostaphylo alpinae-Cetrarietalia* Suzuki-Tokio et Umez 1964
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 5.52 *C a r i c e t a l i a c u r v u l i a e* Br.-Bl. 1948
 5.521 *Juncion trifidi* Nordh. 1935
 5.522 Oceanic ass.-group ???

- 5.6 CARICI RUPESTRIS-KOBRESIETEA BELLARDII Ohba 1974
 5.61 *K o b r e s i o - D r y a d e t a l i a* Br.-Bl. 1948
 5.611 *Kobresio-Dryadión Nordh.* 1936
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 5.612 *Potentillo crantzii-Polygonion vivipari* Nordh. 1936 p.p.
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 5.71 *S a l i c e t a l i a h e r b a c e a e* Br.-Bl. ap. Br.-Bl. et Jenny 1926
 5.711 *Cassiopeo-Salicion herbaceae* Nordh. 1936
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 5.712 *Saxifrago-Ranunculion nivalis* Nordh. 1943 em. Dierßen (1982) 1983
 (incl. *Salicion polaris* Gjaer. 1956, *Distichion capillacei* Gjaer. 1956)
- 5.8 VACCINIO-PICEETEA Br.-Bl. et al. 1939 p.p.
 5.81 *D e s c h a m p s i o - M y r t i l l e t a l i a* Dahl 1956
 5.811 *Phyllodoceo-Vaccinion* Nordh. 1936
 5.8? *D e a c h a m p s i o - A n t h o x a n t h i o n* (DuRietz 1942) Dahl 1956
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 6.1 AMMOPHILETEA ARENARIAE Br.-Bl. et Tx. 1943
 6.11 *A m m o p h i l e t a l i a a r e n a r i a e* Br.-Bl. et Tx. 1943
 6.111 *Agropyro-Honckenyon peploidis* Tx. ap. Br.-Bl. et Tx. 1952
 6.112 *Ammophilion arenariae* Br.-Bl. (1921) 1933
- 6.2 KOELERIO-CORYNEPHORETEA Klika ap. Klika et Nowak 1941
 6.21 *T h e r o - A i r e t a l i a* Oberd. (1957) 1967
 6.211 *Thero-Airion* Tx. 1951
 6.22 *C o r y n e p h o r e t a l i a c a n e s c e n t i s* Klika 1934
 6.221 *Corynephoriion canescens* Klika 1931
 6.222 *Koelerion albescens* Tx. 1937
 6.223 *Sileno conicae-Cerastion semidecandri* Korneck 1974
 6.23 *F e s t u c o - S e d e t a l i a* Tx. 1951
 6.231 *Armerion elongatae* Krausch 1959
 (incl. *Helichryson arenarium* Tx. 1951 p.p.)
 6.232 *Koelerion glaucae* (Volk 1931) Klika 1935
 6.24 *S e d o - S c l e r a n t h e t a l i a* Br.-Bl. 1955
 6.241 *Alyssoo-Sedion* Oberd. et Möll. ap. Möll. 1961
 (syn. *Sedo-Scleranthion* Norw. auct.)
 ??? *Phleo-Sedion* Sunding 1963
 6.24? *Tortello-Sedion* Hallberg 1971
- 6.3 FESTUCO-BROMETEA Br.-Bl. et Tx. 1943
 6.31 *F e s t u c e t a l i a v a l e s i a c a e* Br.-Bl. et Tx. 1943
 6.311 *Festucion valesiacae* Klika 1931
 6.32 *B r o m e t a l i a e r e c t i* Br.-Bl. et Moor 1938
 6.321 *(Xero-)Bromion* Br.-Bl. et Moor 1938
 6.322 *Mesobromion* (Br.-Bl. et Moor 1938) Oberd. 1957
 6.323 *Anthyllido vulnerariae-Artemision campestris* Sunding 1963
- 6.4 MOLINIO-ARRHENATHERETEA Tx. 1937
 6.41 *P l a n t a g i n e t a l i a m a i o r i s* Tx. (1937) 1950
 6.411 *Lolio-Plantaginaceae* Siss. 1969
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 6.42 *A g r o s t i e t a l i a s t o l o n i f e r a e* Oberd. 1967
 6.421 *Agrostion stoloniferae* (Soo 1933) Görs 1966
 6.43 *M o l i n i e t a l i a* Koch 1926
 6.431 *Juncion acutiflori* Br.-Bl. et al. 1947
 6.432 *Molinion caeruleae* Koch 1926
 6.433 *Calthion* Tx. 1937
 6.434 *Filipendulinum* (Duvign. 1946) Seg. 1966
 6.44 *A r r h e n a t h e r e t a l i a e l a t i o r i s* Pawl. 1928
 6.441 *Arrhenatherion elatioris* Koch 1926
 6.443 *Poton alpinae* Oberd. 1950
 6.444 *Equiseto pratensi-Galion borealis* Tx. et Böttcher 1969
 6.445 *Nardo-Agrostion* Sillinger 1933
- 6.5 NARDO-CALLUNETEA Prsg. 1949
 6.51 *N a r d e t a l i a s t r i c t a* Prsg. 1949
 6.511 *Nardo-Caricion bigelowii* Nordh. 1936

- 6.512 *Violion caninae* Schwick. 1944
 (syn. *Nardo-Galio saxatile* Prsg. 1949)
 6.513 *Juncion squarroso* Oberd. (1957) 1978
 6.52 *Calluno-Ulicetalia* (Quantin 1935) Tx. 1937
 6.521 *Ulicion nanae* Duvign. 1944
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 6.523 *Empetrio boreale* Böcher 1943
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 7.11 *Origanetalia vulgaris* Müll. 1961
 7.111 *Geranion sanguinei* Müll. 1961
 7.112 *Trifolion medi* Müll. 1961
 7.113 Boreal ass.-group. ???
- 7.2 *GALEOSPIO-SENECIONETEA SYLVATICA* Pass. 1981
 (incl. *Epidiobetea angustifoliae* Tx. et Prsg. ap. Tx. 1950 em. Pass. 1981)
 7.21 *Galeopetio-Senectionetalia sylvatica* Pass. 1981
 7.211 *Senecionion-Runcion acetosellae* Pass. 1981
 7.212 *Galeopetio-Senectionion* Pass. 1981
 7.213 *Mycelido-Senectionion* Pass. 1981
- 7.3 *BETULO-ADENOSTYLETEA* (Br.-Bl. et Tx. 1943) Br.-Bl. 1948
 7.31 *Adenostyletalia* Br.-Bl. 1931
 7.311 *Lactucion alpinae* Nordh. 1936
 7.311.1 *Dryoptero-Calamagrostenton* (Nordh. 1943) Sekse 1981
 7.311.2 *Athyriion distentifolium* Nordh. 1936 p.p.
 7.312 Assgroup on rel. dry soil
- 7.4 *RHAMNO-PRUNETEA* Riv. God. et Borja Carbonel 1961
 7.41 *Prunetalia spinosa* Tx. 1952
 7.411 *Salicion arenariae* Tx. 1952
 (incl. *Hippophaeion rhamnooides* Vandieren 1932)
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 7.413 *Rubion subatlanticum* Tx. 1952
 7.42 *Samucetalia* Oberd. 1957
 7.421 *Sambuco rubri-Salicion capreae* Tx. et Neum. 1950
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 8.21 *Salicetalia purpureae* Moor 1958
 8.211 *Salicion albae* (Soo 1936) Tx. 1955
 (incl. *Salicion triandrae* Müll. et Görs 1958)
- 8.3 *ALNETEA GLUTINOSAE* Br.-Bl. et Tx. 1943
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 8.312 *Salicion cinereae* Müll. et Görs 1958
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 8.313 *Alno incanae-Salicion pentandrae* K.-Lund 1961
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 8.422 *Fagion sylvaticae* Tx. et Diem. 1936
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