

Supplement S1. Phytosociological relevés of grassland vegetation in Ukrainian Carpathians

Beilage S1. Vegetationsaufnahmen des Graslands in den ukrainischen Karpaten.

- 1.1.1 *Campanulo rotundifoliae-Dianthetum deltoidis* (1–17)
 - 1.2.1 *Nardo strictae-Agrostion tenuis, Campanulo abietinae-Nardetum strictae* (18–26)
 - 2.1.1 Transition between *Arrhenatherion elatioris* and *Nardo strictae-Agrostion tenuis* (27–30)
 - 2.1.2 *Poo-Trisetetum flavescentis* (31–41)
 - 2.2.1 *Lolio perennis-Cynosuretum cristati* (42–43)
 - 3.1.1 Transition between *Scabioso ochroleucae-Brachypodietum pinnati* and *Festuco rupicolae-Nardetum strictae* (44–45)
 - 3.1.2 *Scabioso ochroleucae-Brachypodietum pinnati* (45–46)

Rhytidodiplosis trigularis

Species occurring in less than four relevés

E: *Aegopodium podagraria* 28: +; *Agrostis gigantea* 21: +, 35: +; *Allium vineale* 35: r; *Anemone nemorosa* 23: +; *Anemone ranunculoides* 20: +, 24: +, 28: r; *Anthyllis vulneraria* 39: +; *Aposeris foetida* 24: 2a; *Arabis* sp. 30: r; *Arrhenatherum elatius* 32: 1, 35: +; *Asarum europaeum* 27: +; *Asperula cynanchica* 45: 1; *Asperula tinctoria* 46: +; *Athyrium filix-femina* 28: r; *Bromus hordeaceus* 33: +, 37: +, 40: 1; *Calamagrostis varia* 23: 1; *Campanula persicifolia* 33: r; *Campanula serratula* 23: r; *Campanula trachelium* 33: r; *Cardamine pratensis* 28: +, 31: +, 37: +; *Carex flacca* 5: 1, 45: 2a, 46: 2a; *Carex muricata* agg. 43: +; *Carex nigra* 5: +; *Carex ovalis* 5: +, 10: +, 43: 1; *Carex sylvatica* 38: +; *Centaurea scabiosa* 45: +, 46: 1; *Centaureum erythraea* 4: +, 39: +; *Cirsium oleraceum* 28: +; *Cirsium rivulare* 30: +, 31: 1; *Convolvulus arvensis* 35: +, 40: r, 45: r; *Cornus sanguinea* 46: +; *Crepis capillaris* 42: +; *Crepis conyzifolia* 19: r, 23: 2a, 24: +; *Crepis paludosa* 28: +; *Cynoglossum* sp. 32: +; *Dactylorhiza* sp. 21: r, 28: r, 30: 1; *Dianthus deltoides* 7: r; *Digitalis grandiflora* 27: r; *Doronicum austriacum* 28: +; *Dryopteris carthusiana* 28: +; *Echium vulgare* 44: +; *Elymus repens* 32: +, 42: +; *Equisetum sylvaticum* 29: +; *Erigeron acer* 3: r; *Fagus sylvatica* 38: r; *Festuca ovina* 10: 1; *Festuca rupicola* 44: 1, 45: +; *Filipendula ulmaria* 28: 2a; *Filipendula vulgaris* 8: +, 32: r, 35: +; *Fragaria viridis* 3: r, 43: +; *Frangula alnus* 26: r; *Fraxinus excelsior* 41: r; *Galeopsis* sp. 28: r, 35: r; *Galium boreale* 5: +; *Galium glaucum* 45: 2m; *Galium pumilum* 46: +; *Genista tinctoria* 18: r, 44: r; *Gentianella lutescens* 21: +; *Geranium columbinum* 39: +; *Geum rivale* 30: r, 31: 1; *Glechoma hederacea* 38: +, 42: 1; *Hieracium aurantiacum* 19: r, 24: r, 26: +; *Hieracium lachenalii* (*acuminatum*) 20: 1, 21: r; *Hieracium murorum* 21: r, 24: r, 25: r; *Hieracium schultesii* 13: +; *Homogyne alpina* 20: 1; *Hypericum humifusum* 18: +; *Chaerophyllum aromaticum* 41: r; *Chaerophyllum hirsutum* 27: +, 28: 1; *Chamaecytisus virescens* 45: 1, 46: +; *Juncus conglomeratus* 43: +; *Juncus tenuis* 43: +; *Knautia dipsacifolia* 24: +, 28: +; *Lathyrus niger* 46: r; *Lathyrus sylvestris* 1: +, 44: r; *Listera ovata* 30: +, 31: r; *Luzula luzulina* 24: +, 28: +; *Lycopodium clavatum* 16: +, 24: r; *Maianthemum bifolium* 20: 1, 28: +; *Malus domestica* 37: 2b; *Medicago sativa* ssp. *falcata* 3: +, 46: +; *Melampyrum nemorosum* 44: r; *Melampyrum sylvaticum* 19: +, 23: +, 26: +; *Melilotus* sp. 2: r; *Mentha arvensis* 5: +; *Myosotis arvensis* 32: +, 39: +; *Ophioglossum vulgatum* 30: 2m; *Orchis morio* 15: r; *Orchis* sp. 9: +; *Orchis ustulata* 45: r; *Oxalis acetosella* 28: +; *Peucedanum oreoselinum* 33: r; *Phyteuma tetramerum* 38: +; *Phyteuma spicatum* 21: +, 27: +; *Picris hieracioides* 27: +, 43: r; *Poa annua* 42: +; *Poa compressa* 44: r, 46: +; *Poa trivialis* 32: +; *Polygonatum verticillatum* 23: 1, 28: r; *Populus* sp. 45: r; *Populus tremula* 20: +, 23: +; *Potentilla anserina* 5: 1, 36: +, 42: 2a; *Potentilla reptans* 5: +, 43: +; *Primula elatior* 28: 2a, 31: 1; *Primula vulgaris* 11: 1; *Prunus avium* 1: +, 5: r; *Pseudorchis albida* 23: r; *Quercus petraea* 16: r; *Ranunculus* sp. 40: r; *Rosa gallica* 46: 1; *Rubus fruticosus* agg. 3: r; *Rumex alpestris* 34: 1; *Sagina procumbens* 18: +; *Sagina saginoides* 7: r; *Salix caprea* 24: 1, 25: +, 27: r; *Salix silesiaca* 26: +; *Salix* sp. 9: +; *Salvia verticillata* 17: +, 45: +, 46: +; *Sanguisorba officinalis* 21: +, 29: 2b, 30: 1; *Scleranthus annuus* 18: +, 22: r; *Sedum sexangulare* 37: +; *Senecio jacobaea* 4: r, 42: +; *Silene nutans* s.lat. 27: +; *Silene* sp. 1: +; *Sorbus aucuparia* 21: r, 23: r; *Spergularia rubra* 40: r, 42: +; *Spergularia* sp. 22: r; *Stachys recta* 46: +; *Succisa pratensis* 7: r, 23: +, 26: 2a; *Symphytum officinale* 32: +; *Thalictrum aquilegiifolium* 28: r; *Thymelaea passerina* 45: r; *Tragopogon pratensis* ssp. *orientalis* 32: +, 38: r; *Traunsteinera globosa* 21: +, 28: +; *Trifolium badium* 9: r; *Trifolium hybridum* 29: +, 30: r, 36: +; *Trifolium pannonicum* 1: 1; *Trifolium spadiceum* 29: 2m; *Trifolium* sp. 2: +; *Trollius europaeus* 19: r, 21: r, 27: 2b; *Tussilago farfara* 41: r; *Veronica arvensis* 1: +, 19: r, 37: +; *Veronica hederifolia* 32: 1; *Veronica persica* 42: +; *Veronica spicata* 45: +, 46: +; *Viburnum lantana* 3: +; *Viola arvensis* 10: r, -E0; *Aulacomnium palustre* 20: 1, 25: +; *Barbula unguiculata* 8: +; *Brachythecium albicans* 19: 2b; *Brachythecium* species 2: 1, 6: +, 36: r; *Bryum caespiticium* 17: +; *Eurhynchium hians* 8: +; *Fissidens dubius* 1: 1; *Hylocomium* species 10: +; *Hypnum cupressiforme* 3: 4; *Hypnum lindbergii* 4: +, 39: 2b; *Peltigera* species 22: +, 27: +; *Plagiomnium cuspidatum* 39: 1; *Plagiomnium rostratum* 12: +; *Plagiomnium undulatum* 5: +, 28: +; *Pleuridium subulatum* 40: +; *Polytrichum* species 10: +; *Racomitrium canescens* 18: +, 26: +; *Rhodobryum roseum* 1: 1; *Weissia controversa* 17: +, 35: +