

**Southern Appalachians NC Rock Outcrop Key**  
**Derived from Michael Schafale's Classification of the Natural Communities of NC Fourth Approximation**

- 1 --- (Typic High Elevation Rocky Summit) - *Sibbaldia tridentata*, *Carex misera*, *Athyrium asplenioides*, *Micranthes petiolaris*, *Hylotelephium telephioides*, *Rhododendron catawbiense*, *Krigia montana*, *Heuchera villosa*, or *Danthonia spicata*
- 2 --- (High Peak Rocky Summit) - *Micranthes petiolaris*, *Carex misera*, *Oclemena acuminata*, *Solidago glomerata*, *Heuchera villosa*, *Chelone lyonii*, *Angelica triquinata*, *Rhododendron pilosum*, & *Sorbus americana*. Lacking *Kalmia latifolia*, *Danthonia spicata*, *Krigia montana*, *Vaccinium pallidum*, or *Amelanchier arborea/laevis*
- 3 --- (Little Bluestem Rocky Summit) - *Schizachyrium scoparium*, *Coreopsis major*, *Krigia montana*, *Danthonia spicata*, *Dichantherium acuminatum*, or *Paronychia argyrocoma*
- 4 --- (Ninebark Basic Rocky Summit) - *Physocarpus opulifolius*, *Tradescantia subaspera*, *Packera plattensis*, *Phlox subulate*, *Deschampsia cespitosa* var. *glauca*, *Campanula divaricata*, *Capnoides sempervirens*, *Schizachyrium scoparium*, or *Senega officinalis*
- 5 --- (Basic Low Elevation Rocky Summit) --- *Hylotelephium telephioides*, *Myriopteris lanosa*, *M. tomentosa*, *Aquilegia canadensis*, *Pycnanthemum incanum*, *Philadelphus hirsutus*, *P. inodorus*, *Celtis pumila*, or *Ptelea trifoliata*
- 6 --- (Acidic Low Elevation Rocky Summit) - *Micranthes petiolaris*, *Bryodesma rupestre*, *Danthonia spicata*, *Hypericum gentianoides*, *Kalmia latifolia*, *Campanula divaricata*, or lichens (crustose, *Umbilicaria* spp. or *Lasallia papulosa*)
- 7 --- (Quartzite Ledge Low Elevation Rocky Summit) - *Bryodesma tortipilum*, *Kalmia buxifolia*, *Rhododendron carolinianum*, *Pinus pungens*, *Tsuga carolinianum*, *Xerophyllum asphedeloides*, *Carex umbellata*, or *Hudsonia montana*
- 8 --- (High Elevation Granitic Dome) - *Krigia montana*, *Houstonia longifolia* var. *glabra*, *Danthonia compressa*, *Carex misera*, *Carex biltmoreana*, *Hypericum buckleyi*, *Packera millefolium*, *Capnoides sempervirens*, *Avenella flexuosa*, or diverse mosses & lichens
- 9 --- (Low Elevation Granitic Dome) - *Danthonia spicata*, *Hypericum gentianoides*, *Hexasepalum teres*, *Phermeranthus teretifolius*, *Phlox nivalis* ssp. *hantzii*, *Rhododendron minus*, *Juniperus virginiana*, *Pinus virginiana*, or *Chionanthus virginicus*
- 10 --- (Mafic Montane Cliff) - *Cystopteris protrusa*, *Micranthes caroliniana*, *Asplenium trichomanes*, *Asplenium rhizophyllum*, *Aquilegia canadensis*, *Hydrangea arborescens*, *Philadelphus inodorus*, or *Ulmus rubra*
- 11 --- (Calcareous Montane Cliff) - *Pellaea atropurpurea*, *Cystopteris bulbifera*, *Asplenium ruta-muraria* var. *lanceolum*, or *Asplenium resiliens*
- 12 --- (Acidic Montane Cliff) - *Heuchera villosa*, *Micranthes petiolaris*, *Asplenium montanum*, *Dryopteris marginalis*, *Krigia montana*, *Campanula divaricate*, *Heuchera parviflora*, *Lasallia papulose*, *Umbilicaria mammulata*, or diverse filmy ferns and/or lycophytes in sheltered grottoes (*Hymenophyllum tayloriae*, *Crepidomanes intricatum*, *Vittaria appalachiana*, *Huperzia porophila*)
- 13 --- (Talus Vineland) - *Parthenocissus quinquefolia*, *Toxicodendron radicans*, *Vitis rotundifolia*, *Dioscorea villosa*, *Adlumia fungosa*, or *Dicentra eximia*
- 14 --- (Acidic Shale Slope) - *Pinus virginiana*, *Antherum virginicus*, *Vaccinium pallidum*, *V. stamineum*, *Rhus copallinum*, *Andropogon gerardii*, *Schizachyrium scoparium*, *Carex pensylvanica*, *Danthonia spicata*, *Hieracium venosum*, or *Asclepias tuberosa*
- 15 --- (Calcareous Shale Slope) - *Juniperus virginiana*, *Ulmus alata*, *Fraxinus biltmoreana*, *F. americana*, *Cercis canadensis*, *Celtis pumila*, *Philadelphus hirsutus*, *Piptochaetium avenaceum*, *Myriopteris lanosa*, *M. tomentosa*, *Campanula americana*, *Draba ramosissima*, *Melica nitens*, *Optunia mesacantha*, *Paronychia canadensis*, *Solidago sphacelata*, *Verbesina occidentalis*, or *Woodsia obtusa*
- 16 --- (Pitch Pine Ultramafic Barren) - *Pinus rigida*, *Andropogon gerardii*, *Schizachyrium scoparium*, *Sporobolus heterolepis*, *Packera serpenticola*, *Symphyotrichum rhiannon*, *Viola appalachiensis*, *Physocarpus opulifolius*, *Rhododendron viscosum* var. *montanum*, *Thalictrum macrostylum*, or *Gentianopsis crinata*
- 17 --- (White Oak Ultramafic Barren) - *Quercus alba*, *Physocarpus opulifolius*, *Andropogon gerardii*, *Schizachyrium scoparium*, *Packera serpenticola*, or *Hexastylis* sps #1,
- 18 --- (Virginia Pine Ultramafic Barren) - *Pinus virginiana*, *Sporobolus heterolepis*, *Schizachyrium scoparium*, *Andropogon ternarius*, *Danthonia spicata*, or *Viola walteri*
- 19 --- (Grass Acidic Glade) - *Schizachyrium scoparium*, *Danthonia sericea*, *D. spicata*, *Andropogon gerardii*, *Sorghastrum nutans*, *Helianthus divaricatus*, *Solidago odora*, *Tephrosia virginiana*, *Coreopsis major*, or *Asplenium platyneuron*
- 20 --- (Biltmore Sedge Acidic Glade) - *Carex biltmoreana*, *Krigia montana*, *Micranthes petiolaris*, *Coreopsis pubescens*, *Oenothera fruticosa*, *Thalictrum revolutum*, *T. clavatum*, or *Oxypolis rigidior*
- 21 --- (Basic Montane Glade) - *Primula meadia*, *Hylotelephium telephioides*, *Sedum glaucophyllum*, *Myriopteris lanosa*, *Penstemon canescens*, *Borodinia laevigata*, *Symphyotrichum pratense*, *Calamagrostis porteri*, *Coreopsis grandifolia*, *Ptelea trifoliata*, *Amorpha glabra*, *Rhus aromatica*, or *Amelanchier sanguinea*
- 22 --- (Basic Brushy Mt Glade) - *Croton willdenowii*, *Hypericum radfordiorum*, *Allium keeverae*, *Myriopteris tomentosa*, *Pseudognaphalium obtusifolium*, *Coreopsis tripteris*, or *Senna marilandica*
- 23 --- (High Elevation Mafic Glade) - *Schizachyrium scoparium*, *Crocianthemum bicknellii*, *Ionactis linarifolia*, *Coreopsis major*, *Danthonia compressa*, *Thalictrum amphibolum*, *Avenella flexuosa*, *Sibbaldia tridentata*, *Cladina* spp., or *Cladonia* spp.
- 24 --- (Montane Red Cedar Hardwood Woodland) - *Coreopsis pubescens*, *Sedum glaucophyllum*, *Rhizocarpus opulifolius*, *Philadelphus hirsutus*, *Primula meadia*, *Phermeranthus teretifolius*, *Macrocoma sullivantii*, or *Tortula* sp.
- 25 --- (Granitic Dome Basic Woodland) - *Carya glabra*, *Fraxinus americana*, *Ulmus alata*, *Rhus aromaticum*, *Vaccinium stamineum*, *V. pallidum*, *Piptochaetium avenaceum*, *Danthonia spicata*, or *Aquilegia canadensis*

