|  |  |  |  |
| --- | --- | --- | --- |
| *Biome schema* | *Initial Biome classification* | *Mega biome*  *classification* | *Our original biome classification in Europe* |
| tropical evergreen broadleaf forest | tropical evergreen broadleaf forest | tropical forest | NA |
| tropical semi-evergreen broadleaf forest | tropical semi-evergreen broadleaf forest | tropical forest | NA |
| tropical deciduous broadleaf forest and woodland | tropical deciduous broadleaf forest and woodland | tropical forest | NA |
| warm-temperate evergreen and mixed forest | warm-temperate evergreen broadleaf and mixed forest | warm-temperate forest | WAMX |
| cool-temperate rainforest | wet sclerophyll forest | warm-temperate forest | WAMX |
| cool evergreen needleleaf forest | cool evergreen needleleaf forest | temperate forest | COMX/COCO |
| cool mixed forest | cool mixed forest | temperate forest | COMX/COCO |
| temperate deciduous broadleaf forest | temperate deciduous broadleaf forest | temperate forest | COMX/COCO |
| cold deciduous forest | cold deciduous forest | boreal forest | CLMX/CLDE/TAIG |
| cold evergreen needleleaf forest | cold evergreen needleleaf forest | boreal forest | CLMX/CLDE/TAIG |
| temperate sclerophyll woodland and shrubland | temperate sclerophyll woodland and shrubland | savanna and dry woodland | TEDE |
| temperate evergreen needleleaf open woodland | temperate evergreen needleleaf open woodland | savanna and dry woodland | TEDE |
| tropical savanna | tropical savanna | savanna and dry woodland | NA |
|  | temperate deciduous broadleaf savanna | savanna and dry woodland | TEDE |
| xerophytic woods/scrub | tropical xerophytic shrubland | grassland and dry shrubland | XERO/WAST |
| steppe | tropical grassland | grassland and dry shrubland | XERO/WAST |
| desert | desert | desert | HODE/CODE/COST |
| graminoid and forb tundra | graminoid and forb tundra | dry tundra | TUND |
| erect dwarf shrub tundra | erect dwarf-shrub tundra | tundra | TUND |
| low and high shrub tundra | low and high shrub tundra | tundra | TUND |
| prostrate dwarf shrub tundra | prostrate dwarf-shrub tundra | tundra | TUND |

**Table X. Relationship between biome classification and mega-biome reported in Hegel et al., 2018.** From this table,we test the relatability of our classification in this global spatial resolution. Appellations are summarized in the figure X.