

Table 1: The MCD12C1 International Geosphere-Biosphere Programme (IGBP) legend and class descriptions.

Value	Name	Description
0	Water Bodies	At least 60% of area is covered by permanent water bodies.
1	Evergreen Needleleaf Forests	Dominated by evergreen conifer trees (canopy >2m). Tree cover > 60%.
2	Evergreen Broadleaf Forests	Dominated by evergreen broadleaf and palmate trees (canopy > 2m). Tree cover > 60%.
3	Deciduous Needleleaf Forests	Dominated by deciduous needleleaf (larch) trees (canopy >2m). Tree cover > 60%.
4	Deciduous Broadleaf Forests	Dominated by deciduous broadleaf trees (canopy >2m). Tree cover > 60%.
5	Mixed Forests	Dominated by neither deciduous nor evergreen (40–60% of each) tree type (canopy >2m). Tree cover > 60%.
6	Closed Shrublands	Dominated by woody perennials (1-2m height) > 60% cover.
7	Open Shrublands	Dominated by woody perennials (1-2m height) 10–60% cover.
8	Woody Savannas	Tree cover 30-60% (canopy > 2m).
9	Savannas	Tree cover 10-30% (canopy > 2m).
10	Grasslands	Dominated by herbaceous annuals (< 2m).
11	Permanent Wetlands	Permanently inundated lands with 30-60% water cover and > 10% vegetated cover.
12	Croplands	At least 60% of area is cultivated cropland.
13	Urban and Built-up Lands	At least 30% impervious surface area including building materials, asphalt, and vehicles.
14	Cropland/Natural Vegetation Mosaics	Mosaics of small-scale cultivation 40-60% with natural tree, shrub, or herbaceous vegetation.
15	Permanent Snow and Ice	At least 60% of area is covered by snow and ice for at least 10 months of the year.
16	Barren	At least 60% of area is non-vegetated barren (sand, rock, soil) areas with less than 10% vegetation.
255	Unclassified	Has not received a map label because of missing inputs.