IGBP classification	Code	Our class	RM	MIROC-ESM	Code	RM	MPI-ESM-LR	Code	RM	HadGEM2-ES	Code	RM	IPSL-CM5B-LR	Code	RM
Evergreen needleleaf forest	1	Evergreen forests	1	Tropical forests	1	1	Glacier	1	nc	Broadleaf trees	1	2	Bare soil	1	6
Evergreen broadleaf forest	2	Evergreen forests	1	Temperate/boreal evergreen	2/4	1	Tropical broadleaf evergreen	2	1	Needleleaf trees	2	1	Tropical broad-leaved evergreen	2	1
Deciduous needleleaf forest	3	Deciduous forests	2	Temperate/boreal deciduous	3/5	2	Tropical broadleaf deciduous	3	2	C_3/C_4 grass	3/4	3	Tropical broad-leaved raingreen	3	2
Deciduous broadleaf forest	4	Deciduous forests	2	C_3/C_4 grass	6/7	3	Extra-tropical evergreen	4	1	Shrubs	5	4	Temperate/boreal needleleaf evergreen	4/7	1
Mixed forest	5	Evergreen forests	1	Crop	8	5	Extra-tropical deciduous	5	2	Urban/inland water/bare/ice	6-9	6	Temperate broad-leaved evergreen	5	1
Closed shrublands	6	Shrubs	4	Pasture	9	3	Raingreen shrubs	6	4				Boreal needleleaf summergreen	9	2
Open shrublands	7	Shrubs	4	Bare ground/residual	10/11	6	Deciduous shrubs	6	4				Temperate/boreal broad-leaved summergreen	6/8	2
Woody savannas (40–60 % tree cover)	8	Grass	3				C_3/C_4 grass	8/9	3				C_3/C_4 grass	10/11	3
Savannas (10–40 % tree cover)	9	Grass	3				C_3/C_4 pasture	10/11	3				C_3/C_4 agriculture	12/13	5
Grasslands	10	Grass	3				C_3/C_4 crops	12/13	5						
Permanent wetlands (assuming like grass)	11	Grass	3												
Croplands (corn)	12	Crops	5												
Urban and built-up (assuming sparse grass)	13	Urban/water/bare	6												
Cropland/natural vegetation mosaic	14	Crops	5												
Snow and ice (assuming sparse grass)	15	Urban/water/bare	6												
Barren or sparsely vegetated (assuming sparse grass)	16	Urban/water/bare	6												