

For each strategy:

Height > 2 mm ?

YES

NO

Diffusivity for
CO₂ > mean value
of simulated range

Photosynthetic
capacity > mean value
of simulated range

YES

NO

YES

NO

Bryophyte

Lichen

Cyanobacterium
(high capacity)

Cyanobacterium
(low capacity)



Moss-dominated biocrust

Chlorolichen-dominated biocrust

Dark cyanobacteria-dominated biocrust

Light cyanobacteria-dominated biocrust