LAVESI
2D

Exchange

CryoGrid
1D

Mortality & ageing

Update of environment

Growth

Establishment

t+=1 yr

Seed production

Seed dispersal

- Current year [AD]
- Leaf Area Index (LAI) [m²/m²]
- Stem Area Index (PAI) [m²/m²]
- Mean tree height [m]
- Litter layer height [cm]
- Organic layer height [cm]
- Albedo
- Soil humidity [vol. %]
- Maximum thawing depth [cm]
- Fraction of deciduous species

- Soil humidity [vol. %]
- Maximum thawing depth [cm]

t+=5 min
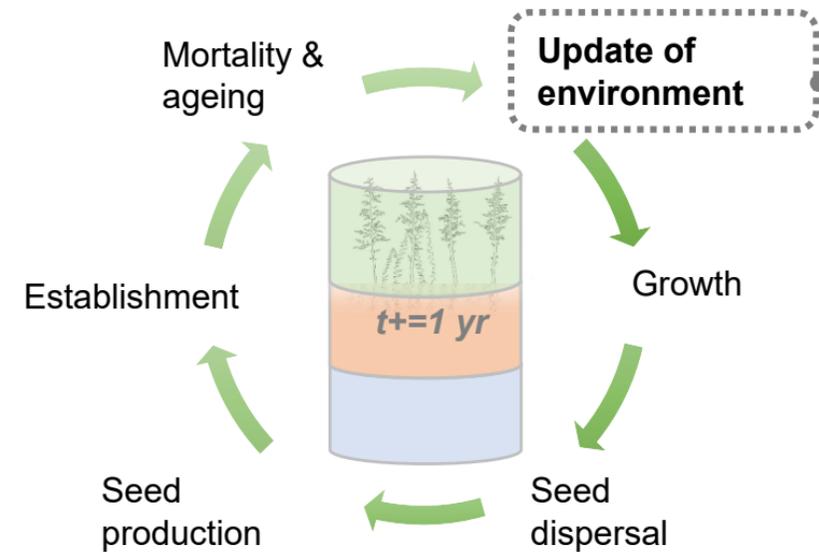
Forest stand

Active layer

Permafrost
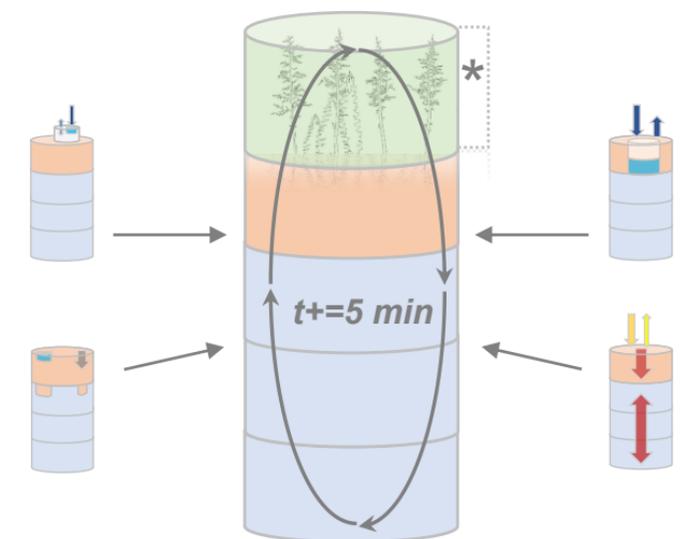
* *Dynamic snowpack*

Water balance

Water infiltration

Melted water / lake

Incoming solar radiation

Outgoing energy

Heat conduction