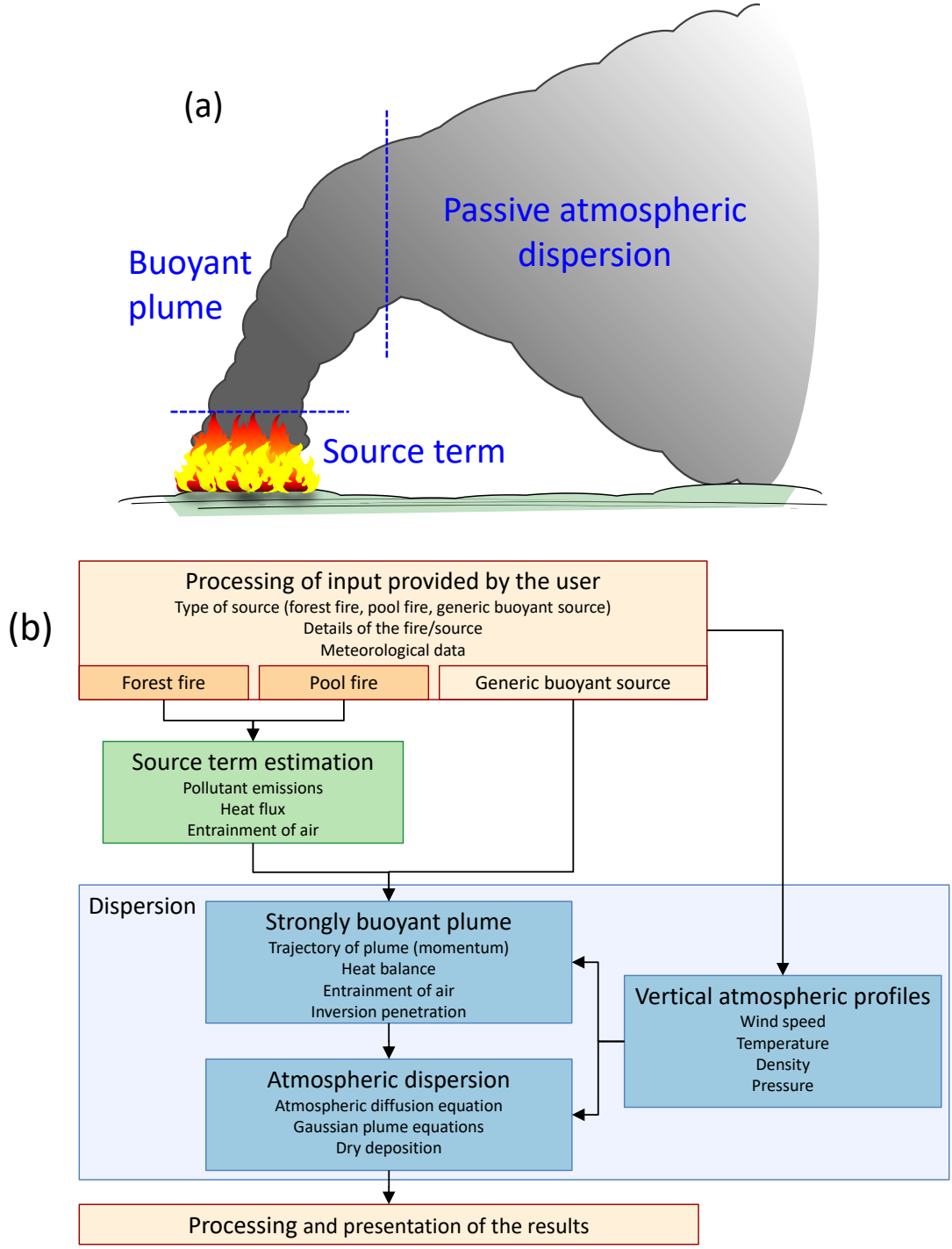
(a)
Passive atmospheric dispersion
Buoyant plume
Source term
(b)
Processing of input provided by the user
Type of source (forest fire, pool fire, generic buoyant source)
Details of the fire/source
Meteorological data
Forest fire
Pool fire
Generic buoyant source
Source term estimation
Pollutant emissions
Heat flux
Entrainment of air
Dispersion
Strongly buoyant plume
Trajectory of plume (momentum)
Heat balance
Entrainment of air
Inversion penetration
Vertical atmospheric profiles
Wind speed
Temperature
Density
Pressure
Atmospheric dispersion
Atmospheric diffusion equation
Gaussian plume equations
Dry deposition
Processing and presentation of the results