Climate data
(P, T, ET0)

Geophysical data
(DEM, LULC, soil, geology)

**Hydrological
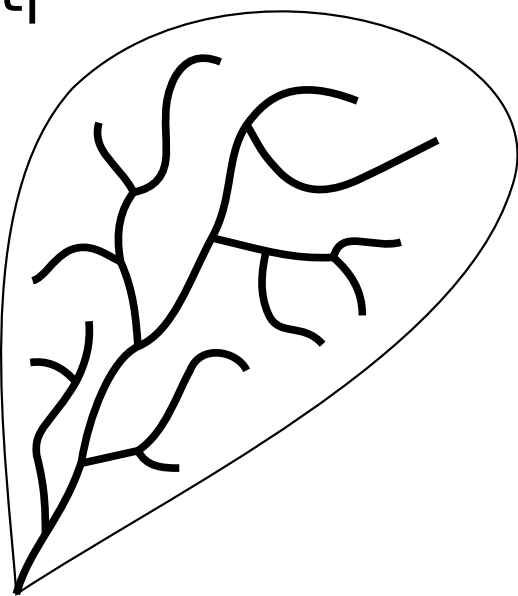model JAMS-J2000**

calibration
Observed discharge

Daily hydrological
variables at reach level
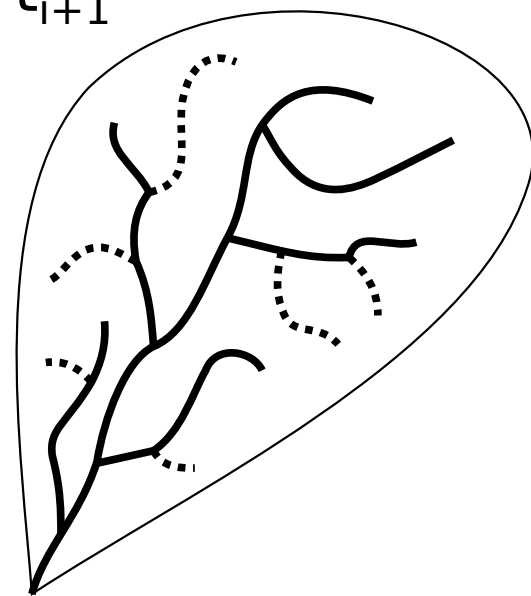(Q, baseflow)

**Random Forest
classification model**

model training
Observed flow state
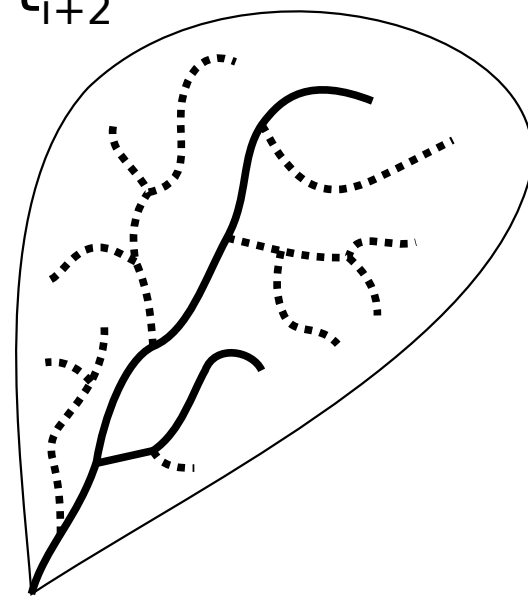
Daily flow state at reach level

t_i t_{i+1} t_{i+2}

—— flowing
······ dry