Lake dynamics:

With $U_{10} = 20 \, m/s$

$Ri_* = 11.5$ (see Python script)

$1 < Ri_* < \dfrac{L}{2h} = 80$

the thermocline will be diffused
and steeply inclined.

before storm

after storm:
- deeper hypolimnion
- not fully mixed
- lower surface temp
  (conserve heat)

z