

(10/15) H_2O 13.6g/ml H_2O 1g/ml
 (a) \uparrow 760mm (55.9 mmHg)
 (b) Surface = 1 atm $P_T = P_{surface} + P_{at 39'}$
 $0.97 atm + \text{[red box]}$ (11.89 mm)
 $\frac{11890 mm}{760} = 15.644 mm$
1 atm = 760 mmHg = 101.35 kPa

Dec 4-8:29 AM

Boiling P_{atm}
 Vapor pressure \uparrow \downarrow cool
 Condenser \leftarrow Hot \rightarrow
 Buns

- ① Bubbles on bottom 1st (gaseous)
 $H_2O (s) \leftarrow$ water VAPOR
- ② Heat increases, from bottom \uparrow
- ③ Boil - bubbles break through surface.

$UP \geq P_{atm}$

Dec 4-9:08 AM

NYC - sea level 760mmHg or 1 atm
 BP Pure $H_2O = 100^\circ C$

Boulder, CO 5430' ~ 1655m
 $P_{atm} < 1 atm$ BP $H_2O < 100^\circ C$
 $\sim 97^\circ C$

Dec 4-9:14 AM

Colligative Prop

TO \uparrow BP

Add solute

\downarrow FP

TO
Solvent

Dec 4-9:16 AM