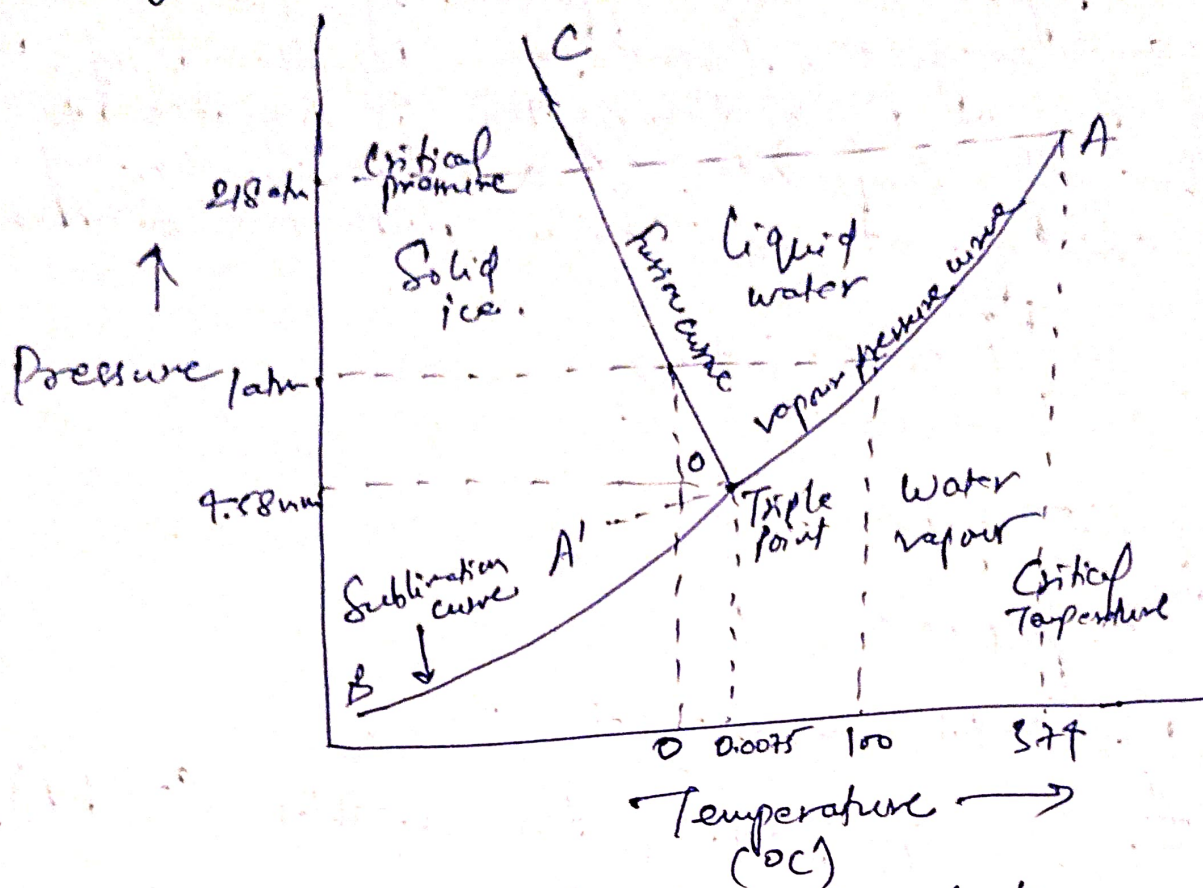


Water System →



Phase diagram for the water system

$$\frac{dP}{dT} = \frac{\Delta H_{vap}}{T(V_g - V_l)} \quad \text{or} \quad \ln \frac{P_2}{P_1} = \frac{\Delta H_{vap}}{R} \left\{ \frac{T_2 - T_1}{T_1 T_2} \right\}$$

Triple point → Where all the 3 phases coexist as at the triple point O.

Metastable equilibrium →

Sometimes it is possible with due care to cool water below its freezing point without the separation of ice. The water is said to be super cooled.

OA' is said to be metastable equilibrium.