



atmosphere:  
too hot, too thick, too rich in  $\text{CO}_2$   
too much  $\text{H}_2\text{SO}_4$ , high winds  
no water

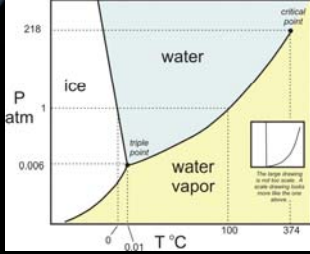





Venus

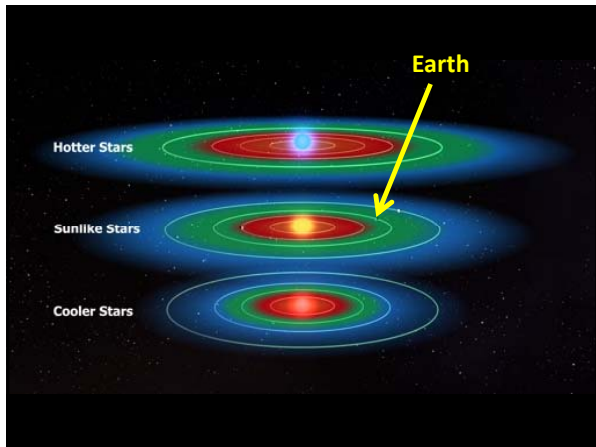
atmosphere:  
too cold, too thin, too rich in  $\text{CO}_2$   
not enough water (all solid  
or vapor)



Mars



The diagram shows the phase transitions of water. The y-axis is pressure (P) in atmospheres (atm), with values 0.006, 1, and 218. The x-axis is temperature (T) in degrees Celsius ( $^{\circ}\text{C}$ ), with values 0, 100, and 374. The regions are labeled 'ice', 'water', and 'water vapor'. The triple point is at 0.01  $^{\circ}\text{C}$  and 0.006 atm. The critical point is at 374  $^{\circ}\text{C}$  and 218 atm. A note states: 'The steep upward slope of the triple point line means that the ice expands when it melts.'



Hotter Stars

Sunlike Stars

Cooler Stars

Earth



The Earth in January

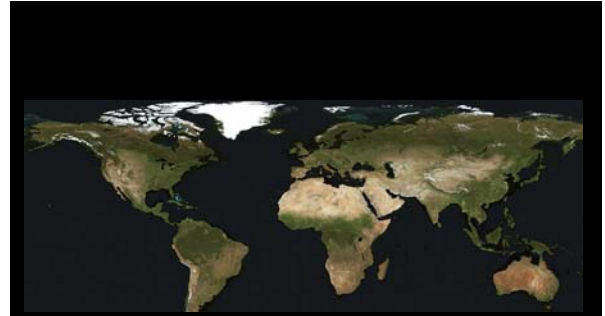


The Earth in July





Diverse Weather



Diverse climates

