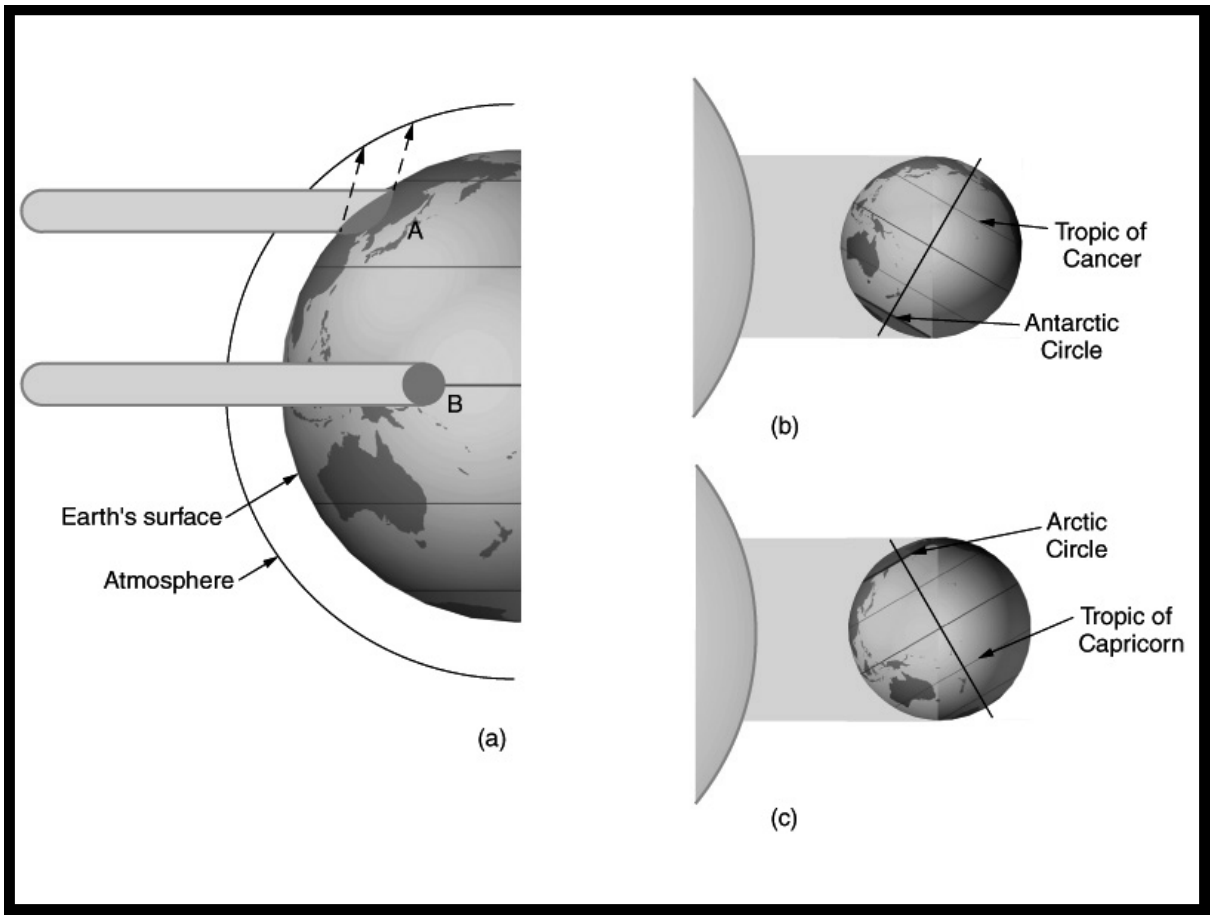
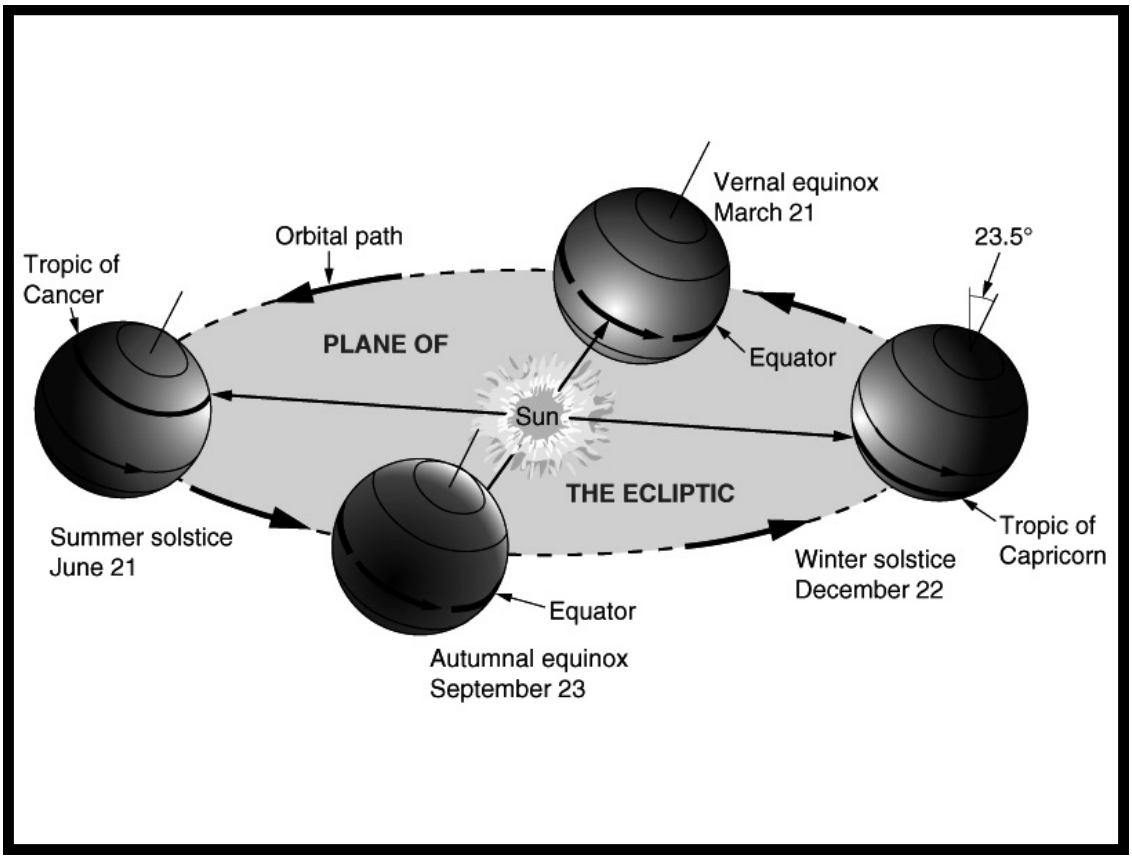
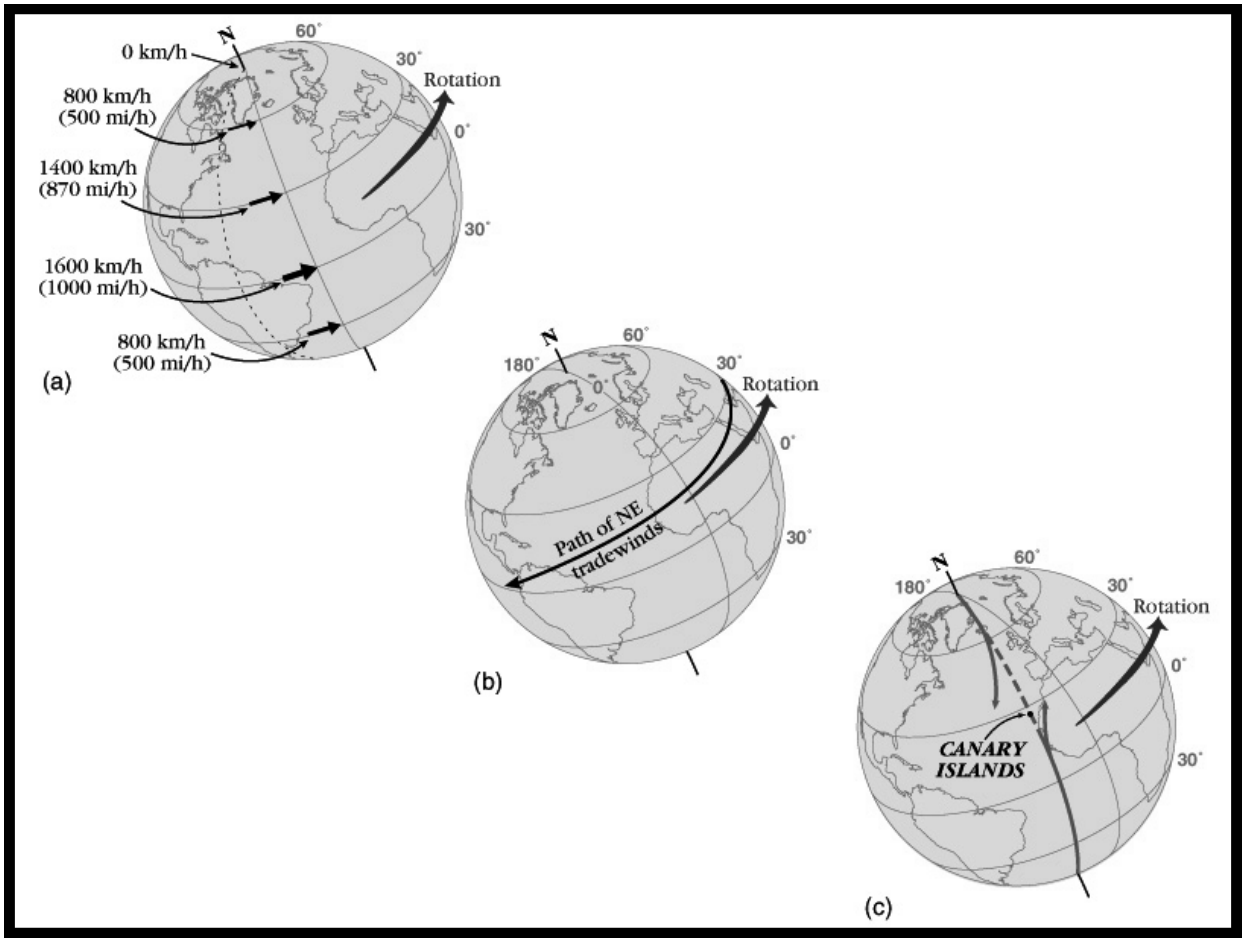
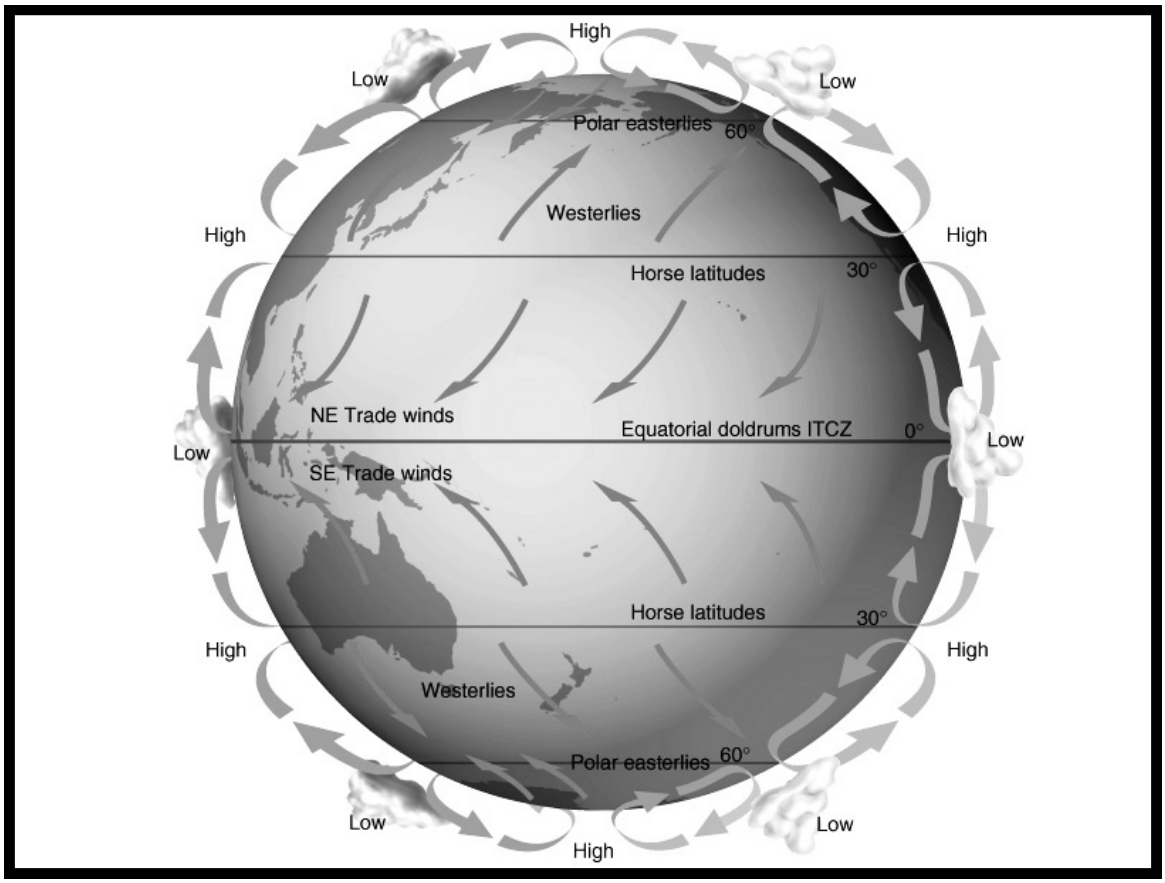
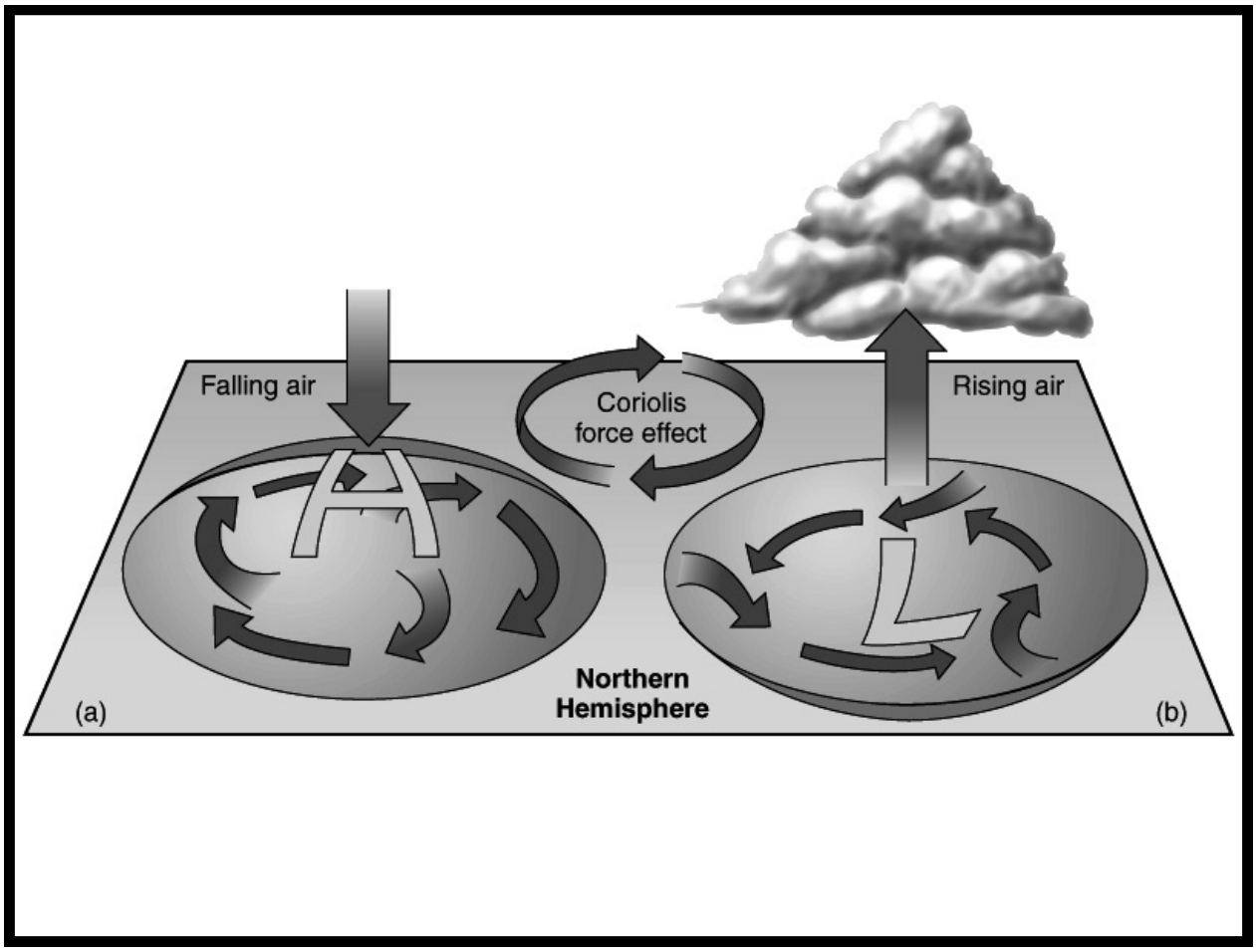

A
B
Earth's surface
Atmosphere
(a)
Tropic of
Cancer
Antarctic
Circle
(b)
Arctic
Circle
Tropic of
Capricorn
(c)


Vernal equinox
March 21
Orbital path
23.5°
Tropic of
Cancer
PLANE OF
Equator
Sun
THE ECLIPTIC
Summer solstice
June 21
Tropic of
Capricorn
Winter solstice
December 22
Equator
Autumnal equinox
September 23


0 km/h
800 km/h
(500 mi/h)
1400 km/h
(870 mi/h)
1600 km/h
(1000 mi/h)
800 km/h
(500 mi/h)
N
60°
30°
Rotation
0°
30°
(a)
180°
Path of NE tradewinds
(b)
CANARY ISLANDS
(c)


High
Low
Polar easterlies
60°
Westerlies
Horse latitudes
30°
NE Trade winds
Equatorial doldrums ITCZ
0°
SE Trade winds


Falling air
Coriolis
force effect
Rising air
A
L
Northern
Hemisphere
(a)
(b)