

SEASONS

Session 7: Tilt and Day Length

I. Collect Data: Total hours of daylight around the world

on June 21

- A. The Northern Hemisphere is tilted toward the Sun.
< toward / away from >
- B. A place that spends this entire day in darkness (never sees the Sun) is McMurdo Station.
This place is in the Southern Hemisphere, close to the South Pole.
< Northern / Southern > < North Pole / South Pole / Equator >
- C. A place that spends less time in daylight than darkness is Puerto Montt.
This place is in the Northern Hemisphere, which is tilted away from the Sun.
< Northern / Southern > < toward / away from >

on December 21

- D. The Northern Hemisphere is tilted away from the Sun.
< toward / away from >
- E. A place that spends more time in daylight than darkness is Boston.
This place is in the Northern Hemisphere, which is tilted toward the Sun.
< Northern / Southern > < toward / away from >
- F. A place that spends the same amount of time in daylight as darkness is Quito.
This place is located near the Equator.
< North Pole / South Pole / Equator >
- G. A place that spends the entire day in daylight (never sees the Sun set) is Barrow.

Sept. 21

- H. Barrow, Alaska spends the same amount time in daylight than darkness.
< more / the same amount of / less >
- I. Puerto Montt, Chile spends the same amount time in daylight than darkness.
< more / the same amount of / less >

2. Compare

A. When the Northern Hemisphere is tilted toward the Sun, the Southern Hemisphere is

tilted away from the Sun.
< toward / away from >

B. Cities in the hemisphere tilted toward the Sun have more hours of daylight than darkness.
< more / the same amount of / fewer >

C. Cities in the hemisphere tilted away from the Sun have fewer hours of daylight than darkness.
< more / the same amount of / fewer >

D. Some places on Earth have roughly equal amounts of daylight and darkness every day of the year. These places are close to the Equator.
< Equator / Poles >

E. There are places on Earth where on certain days of the year, the Sun never rises or never sets for an entire day. These places are close to the Poles.
< Equator / Poles >

F. On September 21 and March 21, the total hours of daylight are the same as the total hours of darkness everywhere on Earth.
< more than / the same as / fewer than >

These dates are known as the Equinoxes.