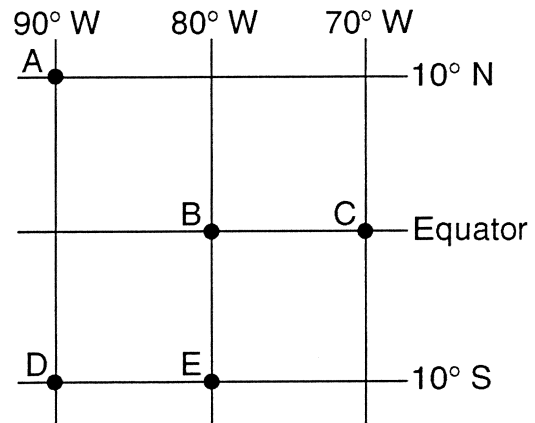


- Most of the surface bedrock in New York State south of latitude 43° N. and west of longitude 75° W. was formed during which period?
 - Silurian
 - Devonian
 - Cambrian
 - Ordovician
- A person knows the solar time on the Prime Meridian and the local solar time. What determination can be made?
 - the date
 - the altitude of Polaris
 - the longitude at which the person is located
 - the latitude at which the person is located
- At which latitude will *Polaris* be overhead?
 - 0°
 - $23\frac{1}{2}^{\circ}$ N.
 - 90° S.
 - 90° N.
- Cities located on the same meridian (longitude) must have the same
 - altitude
 - latitude
 - length of daylight
 - solar time
- The location of Slide Mountain is:
 - $74^{\circ} 25' \text{N}, 42^{\circ} \text{W}$
 - $42^{\circ} \text{N}, 74^{\circ} 25' \text{W}$
 - $42^{\circ} \text{N}, 74^{\circ} \text{W}$
 - $42^{\circ} 25' \text{N}, 74^{\circ} 45' \text{W}$
- What is the difference in mean solar time between $30^{\circ} \text{N } 75^{\circ} \text{W}$ and $30^{\circ} \text{N } 90^{\circ} \text{W}$?
 - 1 hour
 - 2 hours
 - 3 hours
 - 6 hours
- What is the difference in mean solar time between $45^{\circ} \text{S } 75^{\circ} \text{E}$ and $45^{\circ} \text{S } 30^{\circ} \text{E}$?
 - 1 hour
 - 2 hours
 - 3 hours
 - 4 hours
- As a ship crosses the Prime Meridian, the altitude of *Polaris* measured from the ship is 50° . What is the ship's location?
 - 0° latitude 50° east longitude
 - 0° latitude 50° west longitude
 - 50° north latitude 0° longitude
 - 50° south latitude 0° longitude
- At which latitude and longitude in New York State would a salt mine in Silurian-age bedrock most likely be located?
 - $41^{\circ} \text{N } 72^{\circ} \text{W}$
 - $43^{\circ} \text{N } 77^{\circ} \text{W}$
 - $44^{\circ} \text{N } 74^{\circ} \text{W}$
 - $44^{\circ} \text{N } 76^{\circ} \text{W}$
- Base your answer to the following question on the map below, which shows the latitude and longitude of five observers, *A*, *B*, *C*, *D*, and *E*, on Earth.

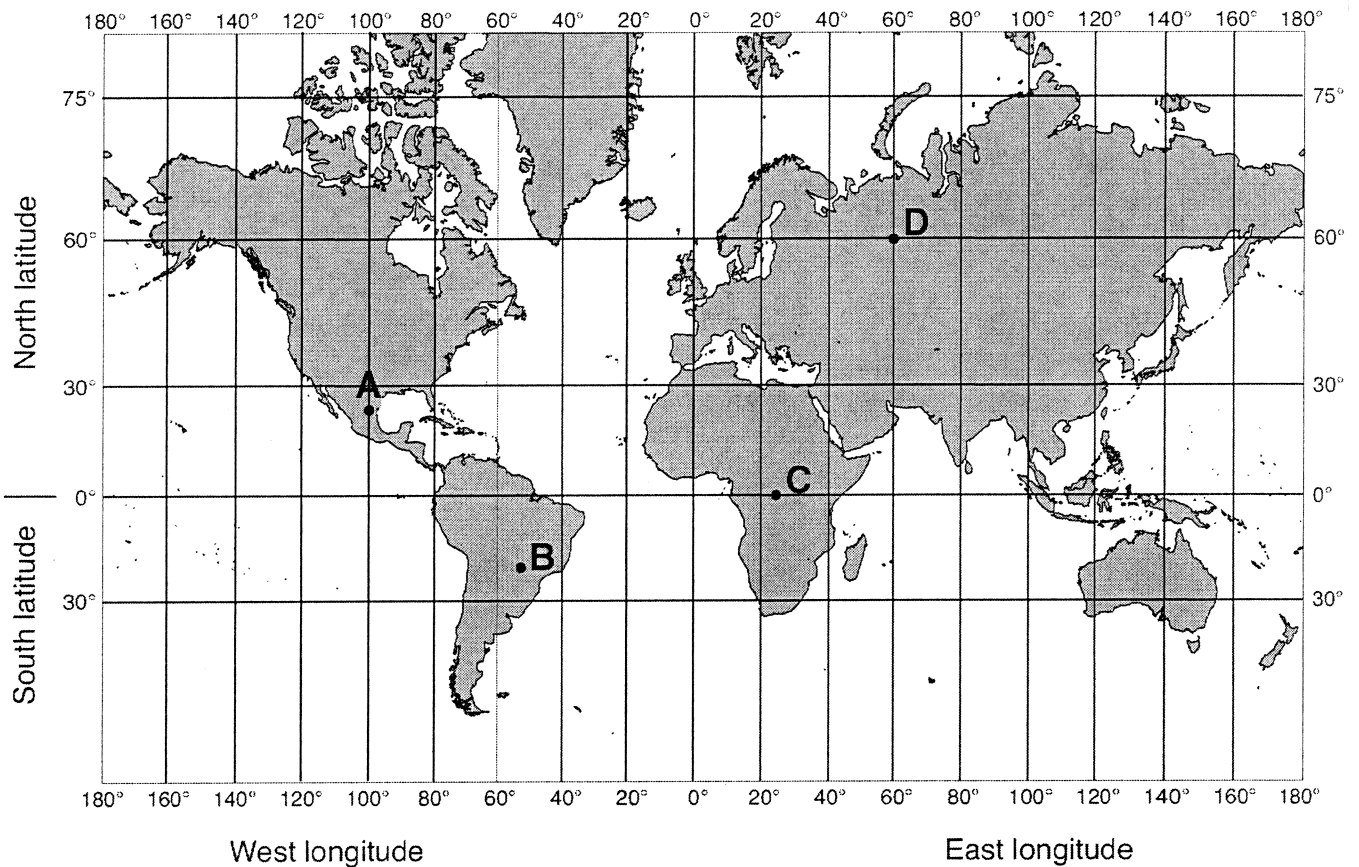


Which two observers would be experiencing the same apparent solar time?

- A* and *C*
- B* and *C*
- B* and *E*
- D* and *E*

Latitude-Longitude

11. Base your answer to the following question on the world map below. Letters *A* through *D* represent locations on Earth's surface.



At which location could an observer *not* see *Polaris* in the night sky at any time during the year?

- 1) A 2) B 3) C 4) D
-
12. The approximate latitude of Utica, New York, is
- 1) 43°05' N 3) 75°15' E
2) 43°05' S 4) 75°15' W
13. When the time of day for a certain ship at sea is 12 noon, the time of day at the Prime Meridian (0° longitude) is 5 p.m. What is the ship's longitude?
- 1) 45° W 3) 75° W
2) 45° E 4) 75° E
14. When the time of day for a certain ship at sea is 2 p.m., the time of day at the Prime Meridian is 5 p.m. What is the ship's longitude?
- 1) 30° W 3) 45° E
2) 30° E 4) 45° W