





- Light radiated from Sun's surface reaches us in about 8 minutes, but the energy of that light was released by fusion in the solar core about ...
- A. one year ago
- B. ten years ago
- C. a hundred years ago
- D. a thousand years ago
- E. a million years ago



















## Reading Clicker -- Solar Wind F

- What are visible effects of the Earth being "bathed" in the wind of solar particles, especially when wind has <u>strong hiccup</u>?
- A. "Auroral lights" visible at night
- B. Electric power grids have problems
- C. Short-wave radio talk interrupted
- D. Satellites (and beepers) may get fried
- E. All of the above



























## Class self-demo of parallax

- Your nose is the Sun
- Your left eye is the Earth in January
- Your right eye is the Earth in June

Watch the apparent motion of your thumb against a distant reference point (repeat at arm's length)

Which <u>"move" more</u> -- closer or farther objects?

## Best parallax measurer :<br/>Hipparcos satellite 1989-1993Space measurements not<br/>affected by atmosphereMeasurement made<br/>many times until accurate<br/>to 0.001 arcsec (~>3300<br/>light years)100,000 stars mapped<br/>(2.5 million to slightly<br/>lesser accuracy)