

## **Answer on Question #54983, Physics / Astronomy | Astrophysics**

### **Qestion:**

List different layers of the Sun's atmosphere. Explain why the temperature in the chromosphere increases with height. What gives rise to solar wind?

### **Answer:**

The three layers of the sun's atmosphere are the Photosphere, Chromosphere, and Corona. The Photosphere contains the sunspots, the Chromosphere, the solar flares, and the Corona contains the solar prominences. The Corona at distance becomes the solar wind and extends for millions of miles. Recently, scientists have discovered a 9 day cycle to Coronal emissions; one scientist reports that the Earth is essentially within the outer sun layer.

The Sun makes itself known throughout much of the Solar System by the influence the solar wind of high-speed charged particles constantly blowing off the Sun. The solar wind may be viewed as an extension of the outer atmosphere of the Sun (the corona) into interplanetary space.