

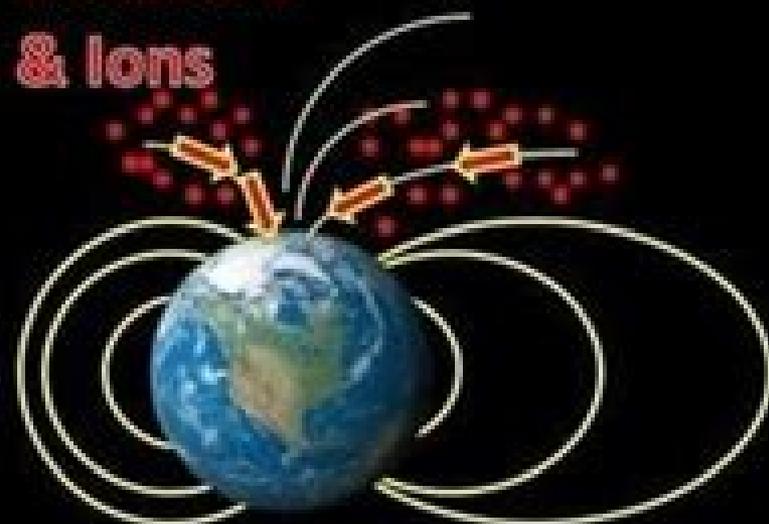


# The Science of Auroras



La Crosse, WI

## Electrons & Ions



Magnetosphere

1. Electrons and ions are released from the sun by either the solar wind or flare. If the earth and sun's magnetic fields connect, these electrons & ions enter into magnetosphere.

2. As the electrons enter into our atmosphere, the electrons impart energy to oxygen and nitrogen molecules in our ionosphere (37 to 311 miles above the Earth's surface)



3. When the oxygen & nitrogen molecules return to their normal state, they release photons (small bursts of energy in the form of light). When billions of these collisions occur enough photons are released for our eyes to detect their ghostly glow.

## Colors of the aurora

-  Oxygen - up to 150 miles in altitude
-  Oxygen - above 150 miles in altitude
-  Nitrogen - up to 60 miles in altitude
-  Nitrogen - above 60 miles in altitude

# Understanding The Aurora

**J Ma**



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