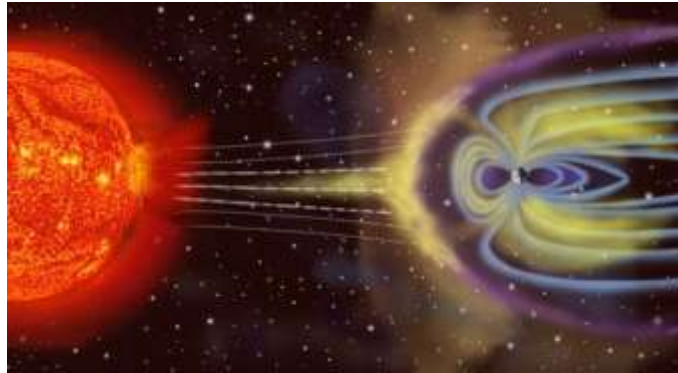


Introduction to Space Weather



As the name implies, Space Weather is somewhat similar to Earth atmospheric weather, but outside of Earth's lower and middle atmosphere. Space Weather as observed in the near-Earth space environment is caused primarily by our Sun, whose upper atmosphere is spread out through the entire solar system.

Space Weather is most notable when the Sun is blowing its hot gases at their greatest energies and closest distances. The Space Weather gases are also affected in the Earth's atmosphere, and atmospheres of other planets, by their types and amounts. Space Weather can have an adverse impact on the Earth's power grid, spacecraft, and astronauts in space. Data from various spacecraft are used to make Space Weather forecasts. This course will include a guest speaker from NASA, a NASA Goddard Space Flight Center tour, and analysis of some Space Weather satellite data.

Space Weather became much more observable with the advent of space vehicles which can travel, not only in Earth's upper atmosphere, but though the entire solar system, where the Sun and other planets could be studied at varied times and distances.

Location

Howard University, Department of Physics and Astronomy, on Saturdays

Credits

2 continuing education credits

Scholarships

Limited number of scholarships available, to Washington DC Public School teachers, on a first come first served basis

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