HW #3 ESS 7 The Perils of Space Due June 4, 2008

1) Go to spaceweather.com
    a. How many potentially hazardous asteroids are currently being tracked?

    b. How big is the largest asteroid that is PHA? How many tons of interplanetary material drift to the surface of the Earth each day? (info given on the NASA NEO pages or if you following the links on the spaceweather.com link).

2) How do satellite builders account for space weather effects in the design of the satellite. Pick one issue and describe how one can help avoid or mitigate that impact.

3) Using what you know about space weather, when (give years) would be the best time to go to Mars in the next 25 years? Explain reasoning.

4) What space weather issues would be important for astronauts working on the moon or Mars that we don't have to worry about living on Earth? What is different about the moon or Mars compared to Earth that is most significant with regards to space weather on those bodies compared to Earth?