View the simulation [here](http://heasarc.gsfc.nasa.gov/docs/cosmic/earth.html) and perform the computations listed.

1. Convert the diameter of Earth to miles.
2. Convert the diameter of the solar solar system to AU.
3. Convert the distance to Proxima Centauri to ly.
4. Calculate the volume of the solar neighborhood in Ly.
5. What is the farthest galaxy from the Milky Way within the local group. Express answer in parsecs. (hint: 3.26ly-1pc) Use appropriate unit prefix notation.
6. Based on the scale indicator found on the Sheets and Voids page, how wide is the gulf between the 2 halves where no stars exist? Express answer in ly.
7. Express the distance to the farthest reaches of space as a metric prefix.