



# Introduction to Earth Science



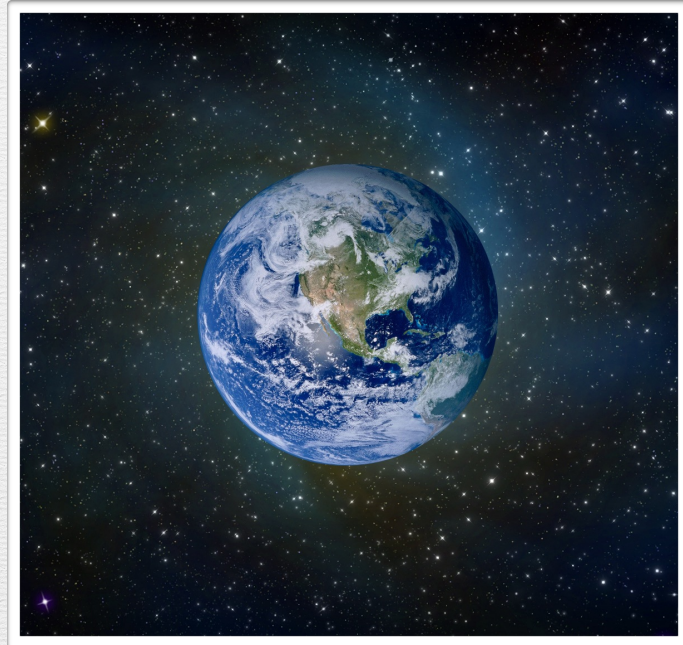
# The Physical Setting: Earth Science

- Earth Science - the study of the planet Earth and all the interrelated process
  - Branches of Science Include: Astronomy, Geology, Meteorology, Oceanography, Climatology and Hydrology

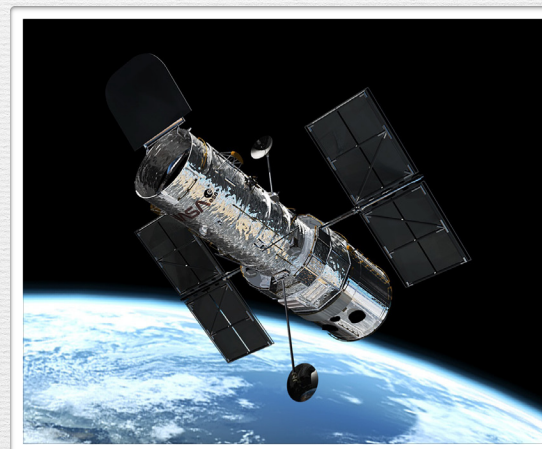


# The Physical Setting: Earth Science

- Astronomy - the branch of science that deals with celestial objects, space, and the physical universe







*Tools used by an Astronomer*



# The Physical Setting: Earth Science

- Geology - the branch of science that deals with the Earth's physical structure, history, and interrelated processes





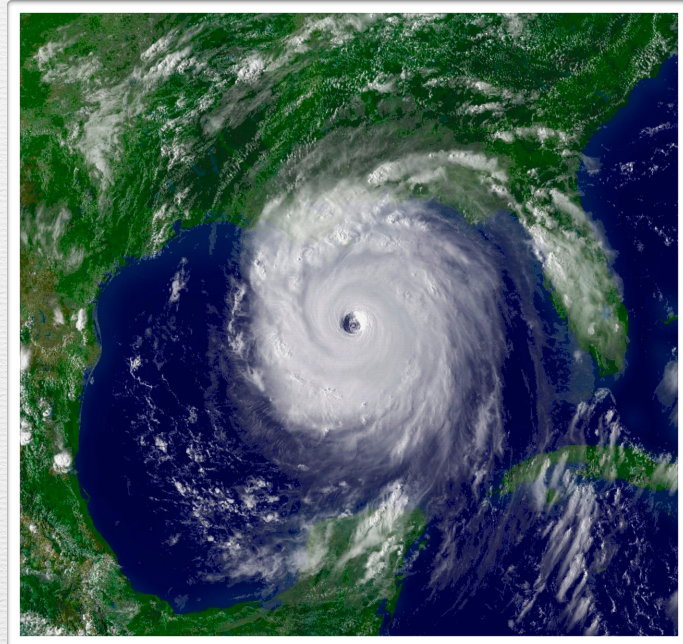


*Tools used by a Geologist*



# The Physical Setting: Earth Science

- Meteorology - the branch of science that deals with atmospheric conditions and forecasting weather







*Hurricane Sandy - October 2012*





*Tools of a Meteorologist*





*Tōhoku Tsunami - March 11, 2011*



# The Physical Setting: Earth Science

- Oceanography - the branch of science that deals with the physical and biological properties of the ocean







*Tools used by an Oceanographer*

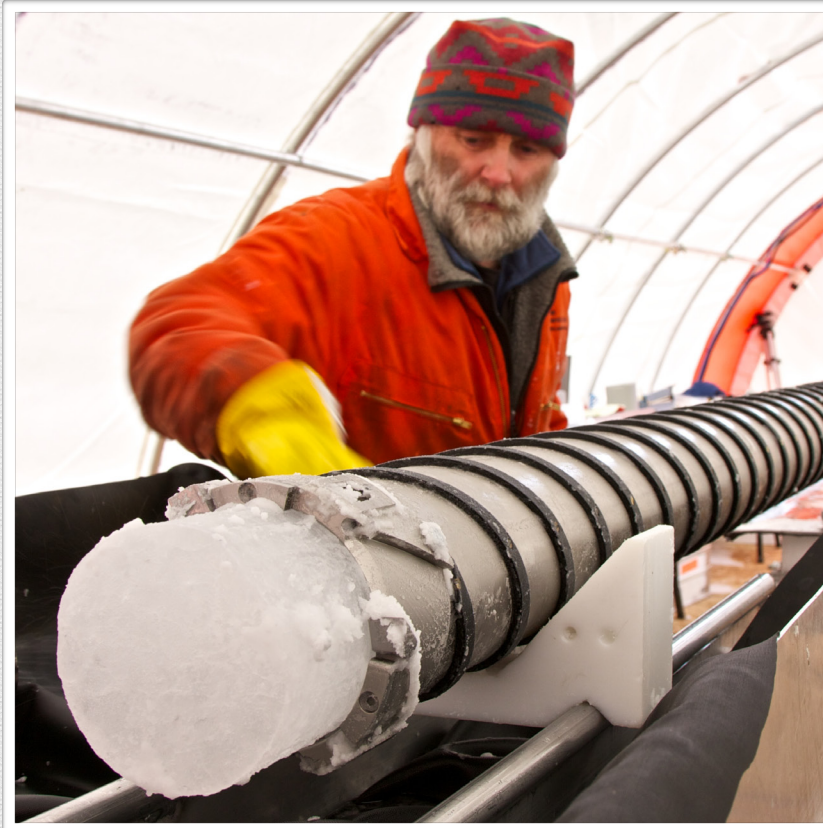


# The Physical Setting: Earth Science

- Climatology - the branch of science that deals with weather conditions averaged over a period of time





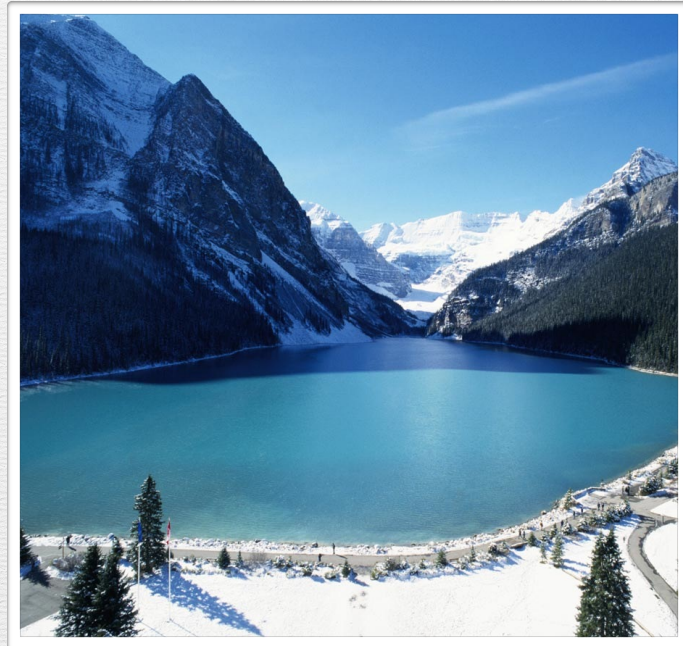


*Tools used by a Climatologist*

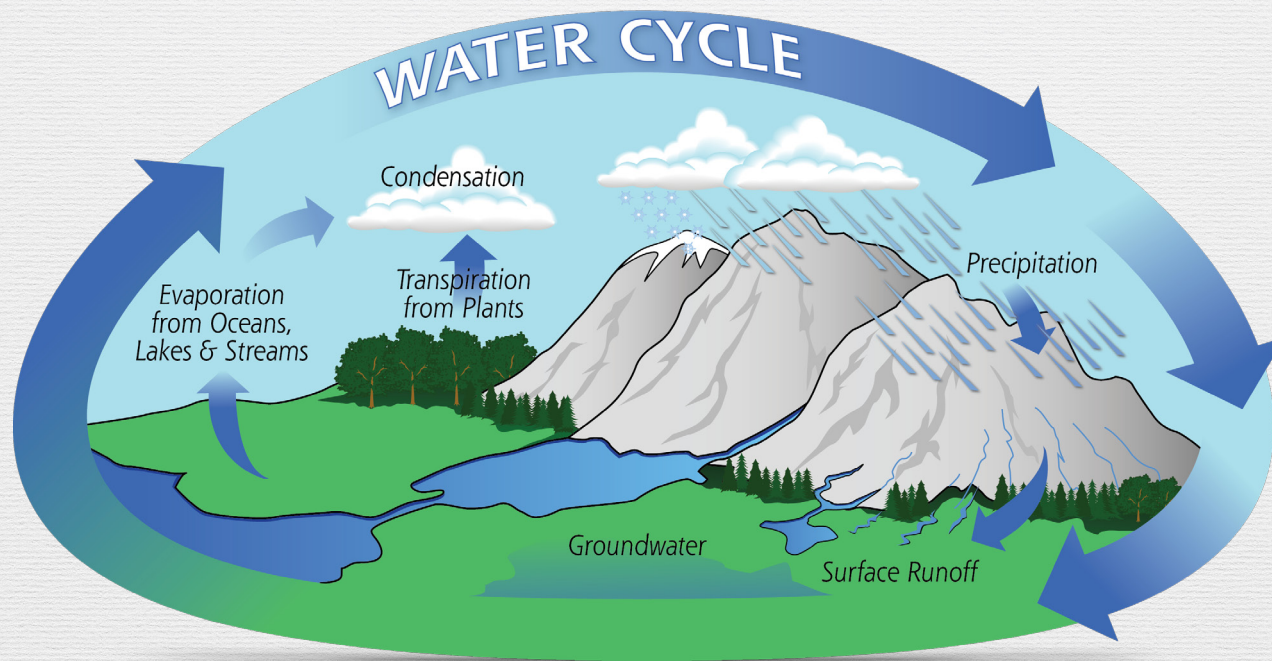


# The Physical Setting: Earth Science

- Hydrology - the branch of science that deals with Earth's fresh water systems





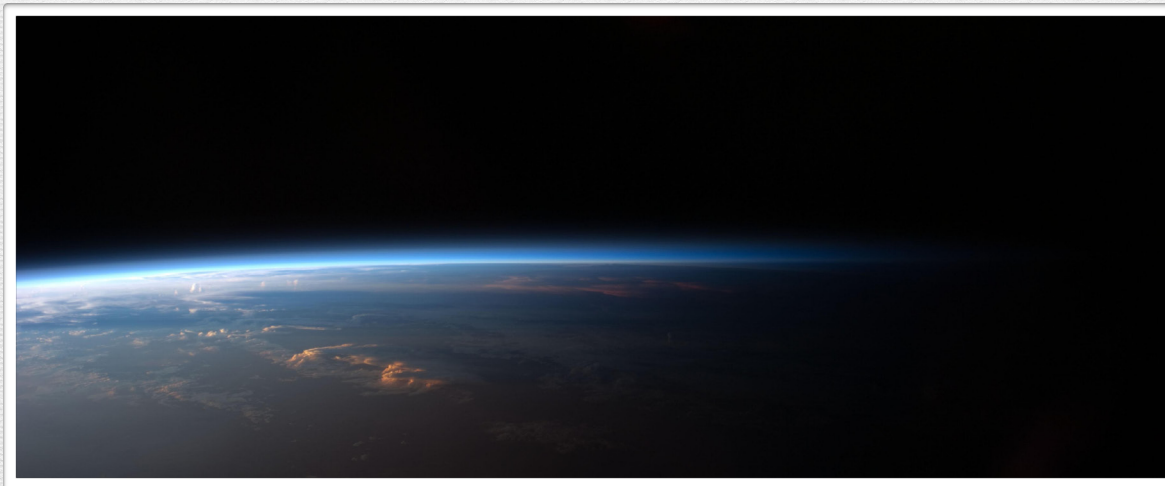


*The Water Cycle*



# The Physical Setting: Earth Science

- Earth is a dynamic self-contained planet where the different processes and mechanisms interact with one another





# The Physical Setting: Earth Science

- Goals to Accomplish by June:
  - Study the interrelated relationships on Earth and recognize patterns to help predict an outcome
  - Learn about emergency preparedness
  - Become problem solvers with everyday issues
  - Pass the final exam



# The Physical Setting: Earth Science

- How to do well:
  - Attend every class
  - Complete your notes and laboratory activities
  - Ask questions — even if you think they are stupid
  - Study your material before quizzes and tests