Geography I Notes

Please Read

Disclaimer

These notes were taken by a student in Geography I, in Spring 2000

They are original notes and have not been corrected by the instructor.

There may be errors. The reader should compare these with your own notes and/or the lecture tapes. Mr. Balogh can answer questions, if you have any, during office hours.
Geology

Intro

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Intro to Geology:

Geology = Study of Rocks

What is Geography?

Geography = what is the
use of the Red

- Organized knowledge of the
Earth as the world of people.

- Knowledge of Earth = Geo. & Earth = how does it effect people

Fettman wrote article in 1908 =

Not interested to Geographers

Shared interest

= Shared interest

Bio swy. subject

Ex = Tides/moon

Art History

Astronomy

Geography

History

Geology

Railroad

Location of Cities
determined by Railroads
By 1855 Eucalyptus trees were brought in.
150 yrs. ago—there weren't even any not one Eucalyptus.

- Geography
  - Physical Geography
  - Natural Science
  - Cultural Geography
  - Anthropology
  - Social Science

Fettersen divided Geography into 2 parts.

- Geography makes maps
  - U.S.G.S. Quadrilateral Sheet
  - Types of maps we will learn to read.

What Culture—?
- Learned behavior—first taught by parents, siblings, friends (visit friends and learn how everyone else behave)

<There is no right or wrong culture.>

- Chetro = Any group of people that live together that are the same culture/ethnic group—that is different from the people around them
- Nation—s a group of people who have a shared culture
- State—s a political entity
Chemistry

- Culture?
- Geography?

Previous Class

Site of a place - describes its interior structure
- Sierra Nevada
- The Great Valley
- Bay Area
- etc.

Situation of a place - How does it fit up its surrounding and relationship

How does Earth fit in - What's the situation of the Earth?

1. Most common thing
   1. Empty Space
   2. Hydrogen - Stars are basic balls of Hydrogen
   3. Helium made up from 2 Hydrogen molecules
   4. Energy is formed by H + H fusing together
      (=) star forming

1951 - Hydrogen Bomb - developed something similar to the energy

Reason Sun doesn't blow up due to gravity holding it together

Hydrogen is not evenly dispersed - Thus it's in chunks, which we call Galaxy's

Our Galaxy is called Milky Way

Most of the things in

\[ 6 \times 10^{12} \text{ How far} \]

\[ 186,000 \text{ miles/sec} \]
VIDEO

Scientist Recreate events which started
4.6 - 4.5 Billion years Ago Earth was Created

How do we know how Earth was Created?
- Some believe Moons might hold answers as to How
Earth was created - Why first 1 Billion Years.

In Arizona -
Meteo Crater - about 50,000 yrs old.
- Nicky Iron meteorite *

Vegetable Gas in dry vacuum - used to simulate meteorite
Reactions in Space.

Moon - Craters and Rays on Moon

Moon surface heated up by causes by impacts - soon cool.

Venus - our sister planet (to Earth)
- thick clouds filled w/ CO2 / lots of lightening
  Acid Rain (200 mph/winds) < Venus
  900°F temp surface

Plate Tectonics - how did it begin? Venus may hold
the answer

Mass - atmosphere so thin - you can barely see it
  "Vallae Martinera" - very deep Canyons - can suck up
  many grand canyons.
- No fuel / No Organic Material
- Nothing would burn.
- Dry Cold Planet - locked in ice caps on Mars are
  wide oceans.

Jupiter - No solid surface, Big Red spot can suck up 3 earths.
- Many moons around Jupiter
Believed there must be a star that is called "Nevus" which goes around close to the sun every 2.6 million years.

Study shown that every 26 million years, there is a large extinction and animals that is wiped out.

Question: Still about how Dinosaurs became extinct.

Far away frozen places - tell us how planet earth might have been formed?

Andromina Galaxy - 200,000 light years away

9 planets:

- Sun
- Mercury
- Venus
- Earth
- Mars
- Jupiter
- Saturn
- Uranus
- Neptune
- Pluto

Pluto is closer than Neptune.

Pluto:
- 48 km/s
- 12 years
- 225 days

Jupiter:
- 365 days
- 30 km/s
- 12 years

Earth:
- 35
- 1 year

Mars:
- 18 km/s
- 2 years

Venus:
- 365 days
- 30 km/s
- 12 years

Mercury:
- 365 days
- 50 km/s
- 1 year
How is Earth Related to Sun.

Gravity stronger closer to Sun.

Revolution of Earth:

Earth closest to Sun.

Perihelion

Sun

Aphelion

Dist 94.5 million miles

Dist 91 million miles

Fastest away

July 4th

Towards its own eastward direction

Influence of Rotation:

Equator diameter 8000 miles

Closer planet is to Sun in its orbit the faster it goes around Sun.

Distance (D) = 8000 miles

Circumference = \( \pi D \)

= \( 3.14 \times 8000 \) miles

= 25,120 miles
Rotation - Earth spins on axis
Revolution - Earth going around Sun

How fast does Earth travel?

\[
\frac{25,000 \text{ miles}}{24 \text{ hrs}} = 1050 \text{ mph} \text{ @ Equator}
\]

Coriolis Effect \( f \)?

Launching a Rocket?

Best way to do it - Put Rocket Eastward and @ Equator

Shape of Planet Physically

Earth

\( L \) due to Rotation

Oblate = Spheroid

Distorted due to Rotation

Geoid = Shape Earth would be without Mass or Oceans Oceans

What would you say to prove that Earth is round? =

- Ships going near (down) photo
- Navigation