Google Earth Exercise

EVS 333 Intro to GIS applications

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At the beginning of this exercise we will download and install, if necessary, Google Earth from `http://earth.google.com`. Together we will go over the main steps in using it. After gaining a basic familiarity with the program, complete the following exercises:

1 Stream Drainage Patterns

Use the web site `http://www.learn.co.za/content/grade12/Geography/geomorphology/density/Unit3/` and Google Earth to determine the drainage patterns for the streams below:

1. Catfish Creek:

2. Near the border of Virginia and West Virginia where Highway 33 crosses:

3. Southeast of the Salton Sea, CA:

4. Around Ely, MN:

2 Coastal Features

Identify or describe at least one major coastal features at the locations below. Look at `http://en.wikipedia.org/wiki/Coasts` for help.

1. Cape Hatteras, NC:

2. Al Khawr, Qatar:

3. Directly west of Mendocino, CA:

4. Mobile Bay, AL

3 Stream Gradients

Use Google Earth to estimate the gradient of rivers at the following locations. Give answers in feet/mile.

1. Mississippi River at Bettendorf, IA:

2. Mississippi River at New Orleans, LA:

3. The Blue Nile where it crosses from Ethiopia into Sudan.

4. The Nile where it crosses from Sudan into Egypt:

5. Why is Khartoum, Sudan located where it is?

4 Gradients on Volcanic Slopes

The slopes of volcanoes vary, but some types are steeper than others. Determine the approximate gradient on the sides of the following famous volcanoes:

1. South slope of Mt. St. Helens, WA:

2. South slope of Kilauea Crater on the Big Island , Hawaii: (See `http://hvo.wr.usgs.gov/kilauea/`