

Homework #A

Google Earth landform and landmark identification exercise.

The Assignment:

DUE: November 29, 2011 (Tuesday)

The goal of this exercise is for you to find, placemark, and describe twelve specific geologic landforms and/or landmarks in Google Earth. The items that you need to find are listed below. You are to find at least two items from each of the six categories below. You may view the placemarks available on the [class website](#) for examples of how they work.

Do your own work - no two students should end up with the same placemarks and descriptions. You may use your textbook, discussions with classmates (but not copying), or other online resources to help you identify these landforms, but all assistance/references should be properly cited at the end of the description. Plagiarism will not be tolerated - when in doubt, ask for guidance.

Instructions:

1. Download the newest version of Google Earth (google.com/earth), if you haven't already.
2. Create a folder to hold your placemarks. Name this folder "YOUR NAME's Landform Placemarks". (Replace "YOUR NAME" with your name, first and last.)
3. Navigate in Google Earth to find a landform from one of the categories below. When you have found a satisfactory example, center it in the field of view and click the thumbtack in the toolbar at the top. When the dialog box opens, replace "Untitled Placemark" with the type of landform you've found. Next, enter a short description of the landform and how it forms geologically in the description box below. When you have finished your title and description click OK. Finally, drag the newly formed placemark into the folder titled "YOUR NAME's Landform Placemarks".
4. Repeat the previous step until you've found at least 12 different landforms (including at least two from each of the categories). You are welcome to create more placemarks if you want to, but only your best 12 will be graded. Spruce up your placemarks if you want by adding photos or links to additional information. You can always edit a placemark (or view the source of the example placemarks for guidance) by right clicking on them and selecting "Properties".
5. Make sure to add references for all material or assistance that you have used that is not your own. Include any references at the end of the description.
6. When you have completed your twelve placemarks save your folder to your computer or jump drive and send it as an e-mail attachment to me. Please put "Geology 305 GE HW" in the subject line.

The Landforms

- ❖ **River Landforms** (*California only*)
 - Braided River
 - Meandering River
 - Oxbow Lake
 - Cutbank
 - Point Bar
 - River Terraces
 - Delta
- ❖ **Desert Landforms** (*California only*)
 - Alluvial Fan
 - Mesa

- › Playa
- › Barchan Dunes
- › Blowout Dunes
- › Linear Dunes
- › Transverse Dunes
- › Star Dunes
- ❖ **Glacial Landforms** (*outside California okay*)
 - › Alpine Glacier
 - › Piedmont Glacier
 - › Glacial Valley
 - › Horn
 - › Cirque
 - › Tarn
 - › Roche Moutonee
 - › Drumlin
 - › Esker
 - › Lateral Moraine
 - › Terminal Moraine
 - › Fjord
- ❖ **Coastal Landforms** (*California only*)
 - › Barrier Island
 - › Spit
 - › Tombolo
 - › Seastack
 - › Baymouth Bar
 - › Tidal Flat
 - › Tidal Inlet
 - › Coral Atoll
 - › Breakwater, groin, jetty
 - › Underwater canyon
 - › Homes on the edge of an eroding sea cliff
- ❖ **Other Landforms** (*California only*)
 - › Stratovolcano
 - › Shield Volcano (*outside California okay*)
 - › Plunging Anticline or Syncline
 - › Fault Zone (showing offset)
 - › Sinkhole
 - › The 'Hole in the Head' at Bodega Bay
 - › Farallon Islands
 - › Alcatraz
- ❖ **Landmarks** (*California only*)
 - › Golden Gate Bridge
 - › State Capital
 - › CRC campus
 - › Redding's Sundial Bridge
 - › Hearst's Castle
 - › Diablo Canyon Nuclear Power Plant
 - › UC Berkeley Stadium (*it sits directly on the Hayward Fault*)
 - › UCLA Stadium
 - › The Linear Accelerator at Stanford University (*2 miles long*)

This HW is adapted from the site of [Dr. Ron Schott, Wisconsin State University](#), Fort Hayes

