

# Physical Geography

## Lab Activity #12

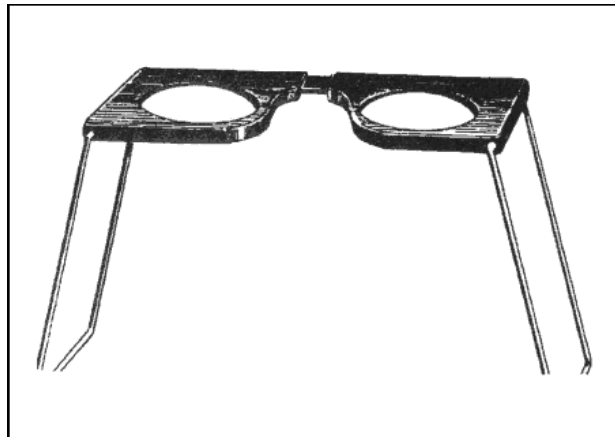
Due date \_\_\_\_\_

### Geomorphology from above

*COR Objective 6,7, SLO 3*

#### 12.1. Introduction

In this lab you will practice picking out geomorphological features from aerial photos and topographic maps using stereographic glasses (figure 12.1). If you overlap two copies of the same aerial photo, stereographic glasses create a 3D representation of a singular image. It takes a little practice, but in adding a third dimension the landforms come to life.



**Figure 12.1. Stereographic glasses.**

You will need to use a copy of Wanless' *Aerial Stereo Photographs*, De Blij et al's *Physical Geography*, and your lecture notes to answer the following.

#### 12.2. Weathering & Mass wasting

1. Describe what you see in Wanless, on pg. 4:

2. What is the term we use for landscapes of this weathered rock? What weathering process led to its creation?
  
3. Describe what you see in Wanless, pg. 8:
  
  
  
4. How does something like this occur?

### **12.3. Fluvial processes**

5. Wanless, pg. 34, describe the process that led to the formation of Horseshoe Lake
  
  
  
  
  
6. Wanless, pg. 44, what do we call a stream that has been elevated like the one shown here?

### **12.4. Aeolian processes/arid landscapes**

7. Wanless, pg. 25, Describe what you see
  
  
  
  
  
8. How were the features at the mouth of the canyons formed?

9. Wanless, pg. 26, Describe what you see

10. What other desert region does the scene on page 26 remind you of?

### **12.5. Glacial processes**

11. Wanless, pg. 10, Describe what you see

12. The above glacier will carve out what?

13. Wanless, pg. 15, Describe what you see

14. What famous granite valley in California was sculpted this way?

15. Wanless, pg. 16, Describe what you see

16. What is the weathering process that gave the mountain at C.0-2.0 its general round shape? How does it work?

17. Wanless, pg. 17, Describe what you see

18. How are the features on Wanless, pg. 20 formed? Do they come from alpine or continental glaciers?

### **12.6. Coastal Processes**

19. Are the majority of the coastal landforms on Wanless, page 28 the result of erosional or depositional processes? How can you tell?

20. Explain what the continued warping or refraction of waves will do to the headlands and what the coastline will ultimately look like.

*End of Lab 12*