

## **Instructor's Notes - GIS users**

Students should have some familiarity with importing data and using toolbox features or command line in Spatial Analyst.

**Before the lab:** Hand out the worksheet in class before the day of the lab in order for them to define the terms listed.

**Pre-lab lecture:** Make sure students understand basic concepts about stream and basin development. Lead an in-class practice session on Strahler Stream Order. Discuss background for Mars water debate. See relevant references to brush up on this.

**Lab time:** The first step involves downloading large datasets, so you may want to do this for them ahead of time or budget extra time for the download. Follow the instructions. In the analysis step, encourage students to think about the systems both locally and globally. These questions may require some online research, so I would recommend the assignment be due at the beginning of the next class period so that students can fully research terrestrial analogs.