G302 Intro to Rockworks Tutorial Exercise

INTRODUCTION

Rockworks software represents a geologists tool kit that includes a wide array of software utilities for processing geologic data and solving geologic problems. The online tutorial that is available with the software will guide you through the basic procedures of using select utilities. After you complete the tutorial, you will then be ready to use Rockworks to solve a set of geologic problems.

LOGGING ONTO ROCKWORKS IN THE GEOLAB (NS RM 218A)

Rockworks is installed on the following computers in NS218A: North Sister, Mazama, Bachelor, South Sister, Washington. A user profile folder has been created on the hard-drives for each student in the class. This folder is only specific to the machine that you log onto (i.e. if you save work on Mazama, you need to go back to mazama to work with your saved data). The following steps will help you log-on to the rockworks software environment:

(1) click on the RW2002 icon on the desktop or on the start-programs menu, when the opening window pops up, make sure the "Network License" radiobox is checked. Enter the following user profile information (my example login is shown below, substitute your name in the appropriate spaces):
   Username: taylors   use your aviation student log-in name
   License Folder: browse to c:\rockwareusers\taylor (find your last name)
   License File: browse to c:\program files\rockworks\rw2002.lic   (this is the same for all)

   Click "next" and the project data folder box will pop up:

   Project Data Folder: browse to C:\rockware users \ taylor   use your root folder

   NOTE: all the the computers have the above folders on the c:\ drive, except for Washington, rockworks is installed on the "d:\drive" in this case (substitute accordingly above).

   Click Next – you will now enter into the main software environment. You will see two windows, the main program window, and a secondary box for the tutorial windows.

ROCKWORKS TUTORIAL INSTRUCTIONS

From the tutorial and main program window, you will see that there are two main menu environments: (1) the "borehole manager", and (2) "geological utilities". We will only be working with the "geological utilities" tools in this exercise.

Task 1 – toggle back and forth between the borehole manager and geological utilities tabs on the main menu, familiarize yourself with each of the pull-down menu functions at the top of the window.

   1A – type (word process) out a list of geological utilities functions associated with all the pull down menus, and a brief 1-2 sentence description of each.

Task 2 – using the rockworks tutorial window, work through the informational tutorial exercises for the following utilities (click on the "learn about geological utilities tutorial"). The tutorials will lead you to canned datasets in the program files, open them, work through the problems, and print your results and tutorials with your name, include in your folder. Complete the following:

- Learn about this tutorial
- Learn about the Geological Utilities datasheet and its tools.
- Introduction to the Geological Utilities in RockWorks2002.
- Open a project folder.
- Create point and surface maps.
- Create survey maps.
- Create lineation maps and rose diagrams.
- Create a strike and dip map, and a stereonet diagram.