ASSIGNMENT 3: INSTRUCTIONS FOR HELP3 MODEL

WINTER TERM 2014 J Sykes

- Run HELP3: c:\HELP3> HELP3
- Enter; Enter; Enter to get to the main screen for HELP3
- Using cursor keys, select 1. Enter/Edit Weather Data
 - o Change directory for precip to c:\HELP3\DATA (use cursor keys)
 - o F4 to view files and select WATERLOO data using cursor key and "enter"
 - o Repeat for temperature and solar radiation
 - o For evapotranspiration: PgDn to create data
 - Units: 2 for metric
 - Nearby City: use F5 and choose Syracuse New York
 - Enter an evaporative zone depth (use F1 and F2 for assistance)
 - Enter a maximum Leaf Area Index (LAI)
 - Revise relative humidity and wind speed as appropriate
 - PgDn to save your selected files
 - o Enter to accept Y for each file
- Select 2. Enter/Edit Soil and Design Data using cursor key, Enter
 - o PgDn to create new data or specify directory and file (use F4) to revise a previous data set
 - Make sure units are metric
 - Add a title; area; percent pervious; and indicate that you want the model to specify initial moisture storage
 - PgDn to proceed
 - o Enter data for each layer in your soil model:
 - Layer type is 1, 2, 3 or 4
 - Layer thickness
 - F6/F7 for parameters for soil type but revise as needed
 - PgDn to revise hydraulic conductivity
 - For layer 1, PgDn, PgDn to the screen that calculates curve number
 - Use cursor key and "enter" to select Help Model Computed Curve Number; add slope, slope length, vegetation (use F2 for assistance)
 - PgUp to return to soil column screen
 - Use PgUp and cursor to enter 2nd layer data; note that you only need the curve number for the first layer
 - F10 when all of the layers have been entered
 - o Enter to save the soil column data; choose appropriate directory and file name
 - o PgDn to proceed; enter to accept Y (yes)
- Select 3. Execute Simulation using cursor key or 3, Enter
 - o Make sure all file names and directories are correct
 - o PgDn, PgDn for simulation; make sure units are correct
 - o Successive Ctrl-F12 to speed up computer
- View and plot data by copy and using excel