

TUTORIAL of ANNEL2 (Updated 12/26/2020)

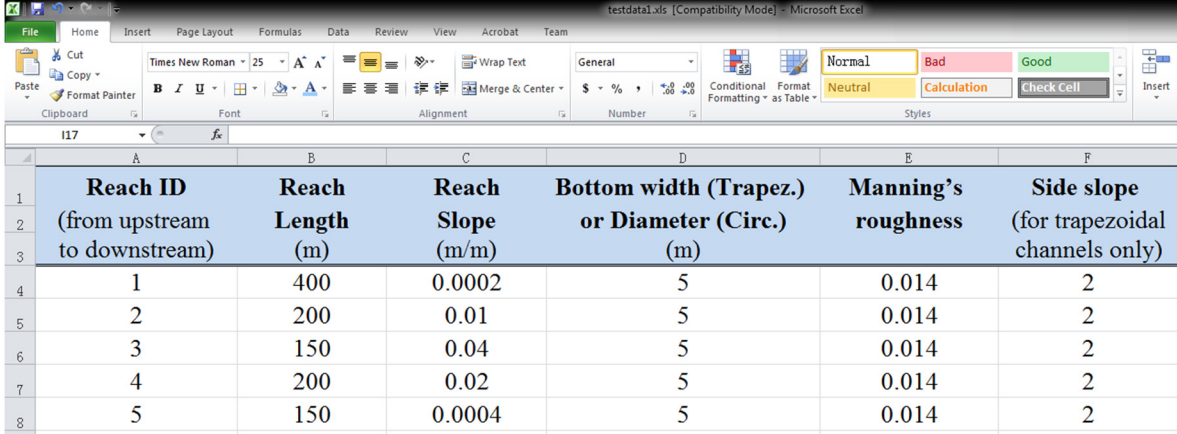
Annel2 was developed by Arturo Leon in 2002 at the University of Illinois at Urbana-Champaign, Illinois, USA.

The developer makes no warranties, either express or implied, with respect to the program Annel2 described here, in its quality, performance, or fitness for any purpose.

To execute this program, first save the folder Annel2 to the address that you prefer. For example: C:\ANNEL2.

Following, enter data of the channel in the file **testdata1.xls**, which is located in the folder **ANNEL2**.

Example:

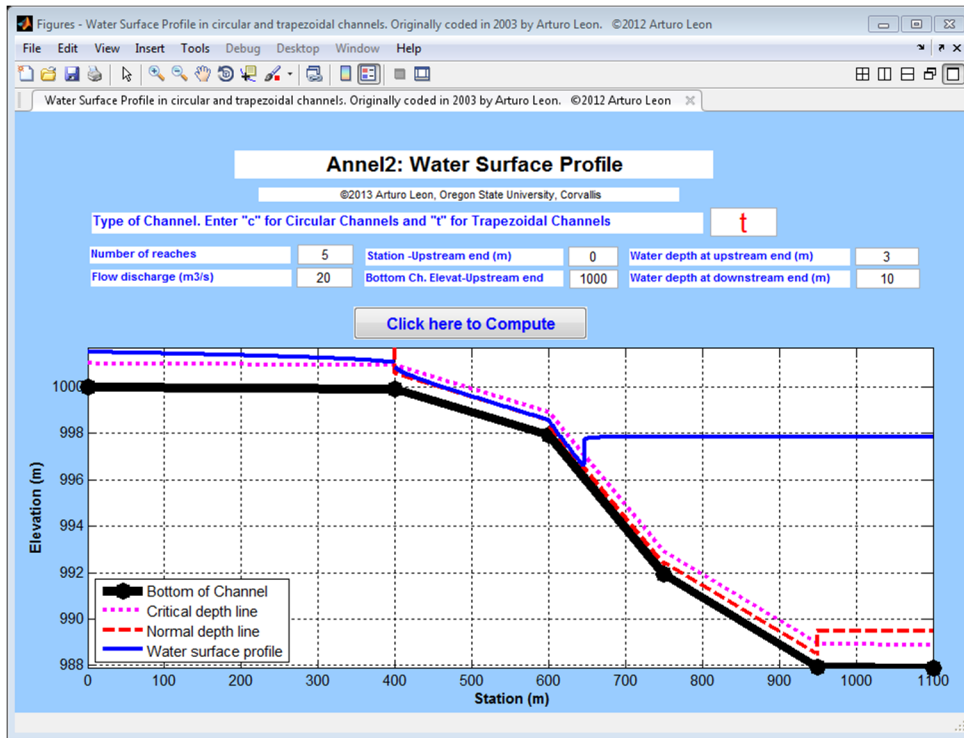


Reach ID (from upstream to downstream)	Reach Length (m)	Reach Slope (m/m)	Bottom width (Trapez.) or Diameter (Circ.) (m)	Manning's roughness	Side slope (for trapezoidal channels only)
1	400	0.0002	5	0.014	2
2	200	0.01	5	0.014	2
3	150	0.04	5	0.014	2
4	200	0.02	5	0.014	2
5	150	0.0004	5	0.014	2

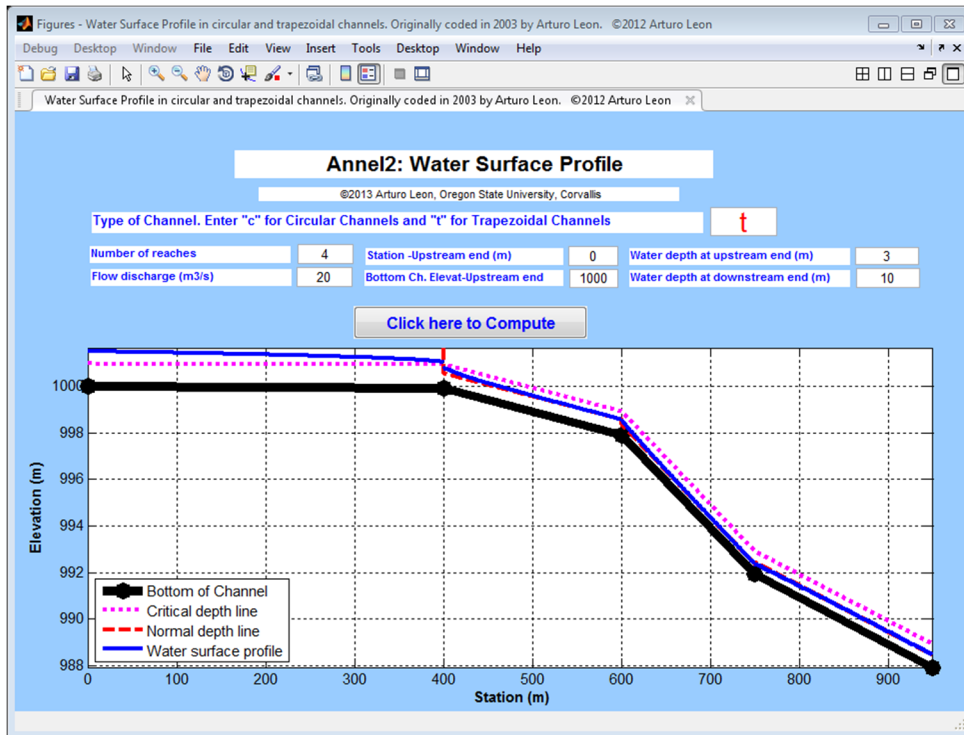
The columns of data indicate respectively:

1. **Reach ID:** Identification of reach **starting from upstream to downstream**.
2. **Reach Length:** Enter the length of each reach in meters.
3. **Reach Slope:** Enter the slope of each reach in m/m.
4. Enter **Bottom width** for trapezoidal (including triangular and rectangular) channels or **Diameter** for circular channels in meters. Note that **Bottom width = 0 for a triangular channel**.
5. **Manning's roughness:** Enter Manning's roughness for each reach
6. **Side slope.** This only applies to trapezoidal, triangular and rectangular channels. Note that **Side slope = 0 for a rectangular channel**.

In the folder Annel2, double click in **Pond_ChannelsDesign3.m** file. Notice that there are two files with this name. Choose the one that is a Matlab file (.m file). After this, on the keyboard press F5 or click on **run** (▶) in this Matlab file. This will show a window similar to what is shown below.



Now, enter the requested data and press **“Click here to Compute”** to execute the program.



Please send your suggestions to Arturo Leon (arleon@fiu.edu)