What you are looking for:

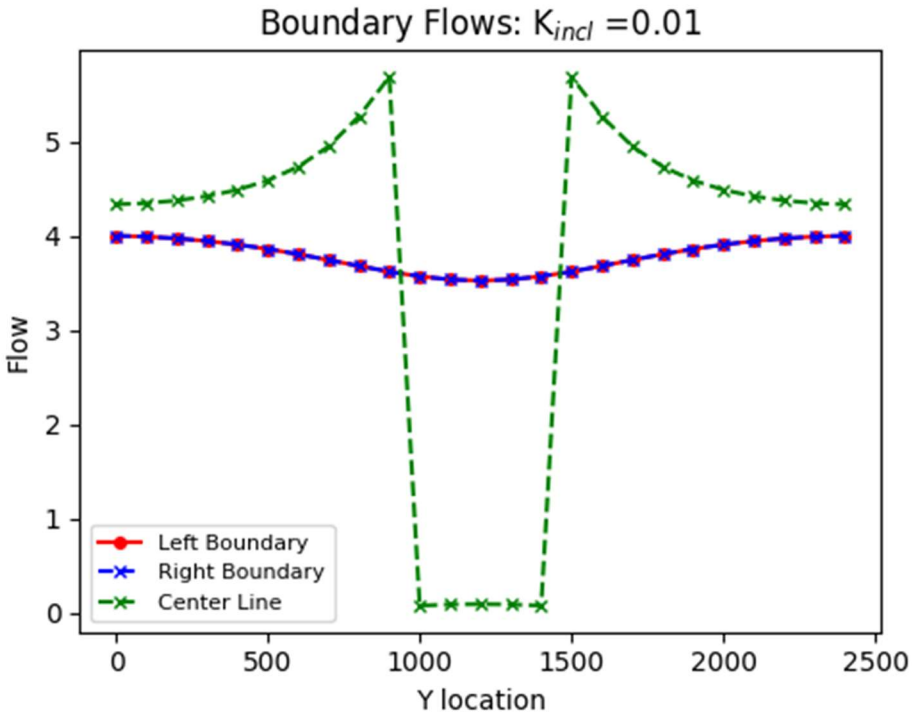
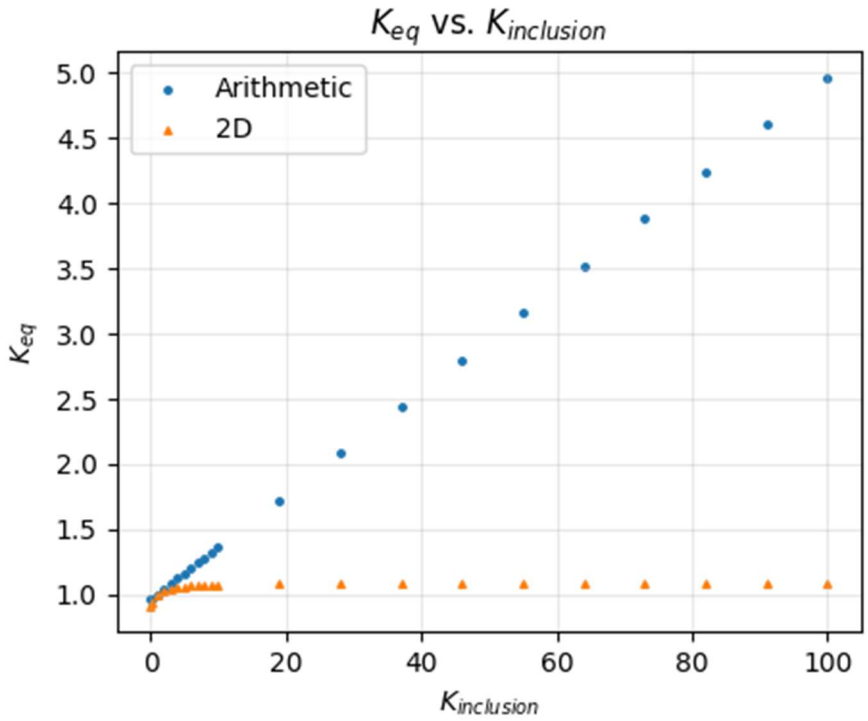


Figure 1: Boundary flows under base conditions, plus the center-line flow (like row 13 of the dataset). Didn't do the base one without the center line (really just forgot to copy it before editing the code), but can add that if need be.



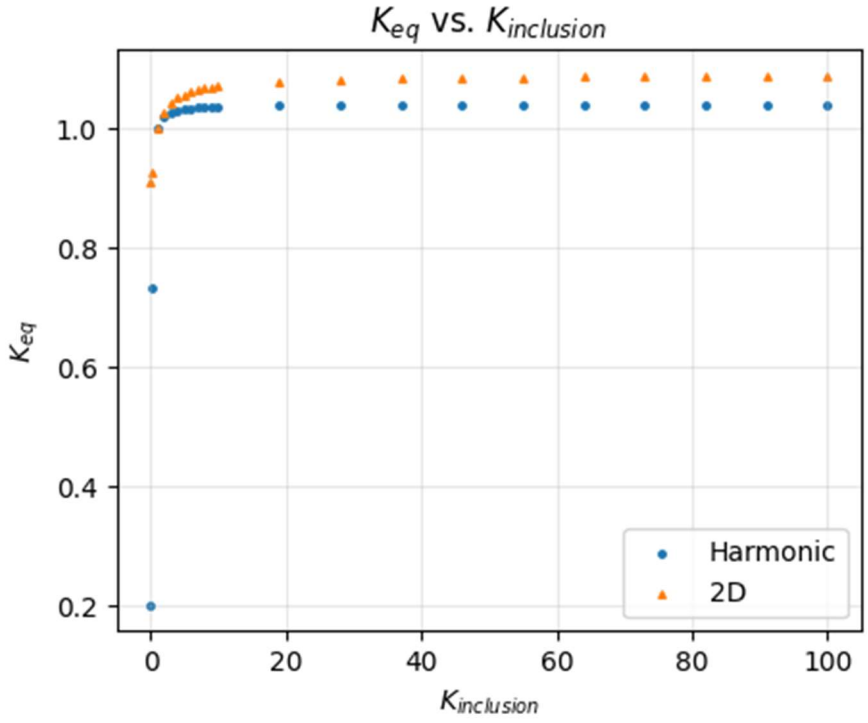


Figure 2 & 3: Comparison of 2D and Arithmetic Mean (Fig.2), as well as 2D and Harmonic Mean (Fig.3), K_{eq}.

Stuff you did not know you need:

So I messed around with the code and made it so it generates multiple folders for each model using the model_ws kwarg within the flopy.modflow.Modflow() command. Stored all the models in a dictionary based upon how many $K_{inclusion}$ values are chosen (initially did it with your 5 chosen values, then upped it to 22 spread out across the range of your values). Updated all cells accordingly so you can spit out as many as you need/want:

Figure 3: Code before (Top) vs. Code after (Bottom)

Following are an assortment of fun graphs:

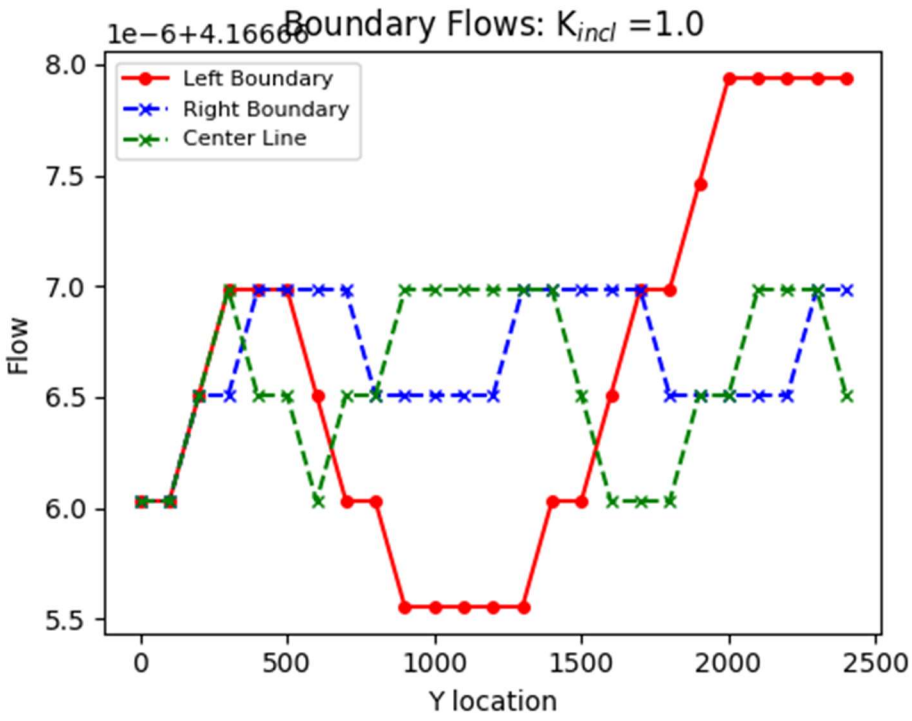
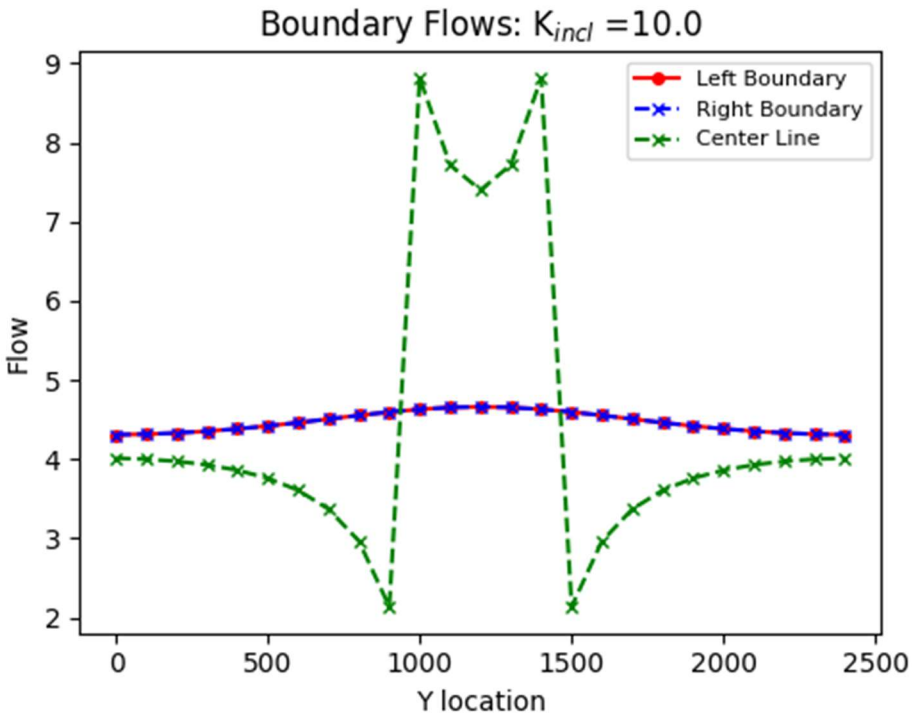


Figure 4: Flows during homogenous; note the scale is to 10^-6, so obviously very little difference between left, right and center flows.



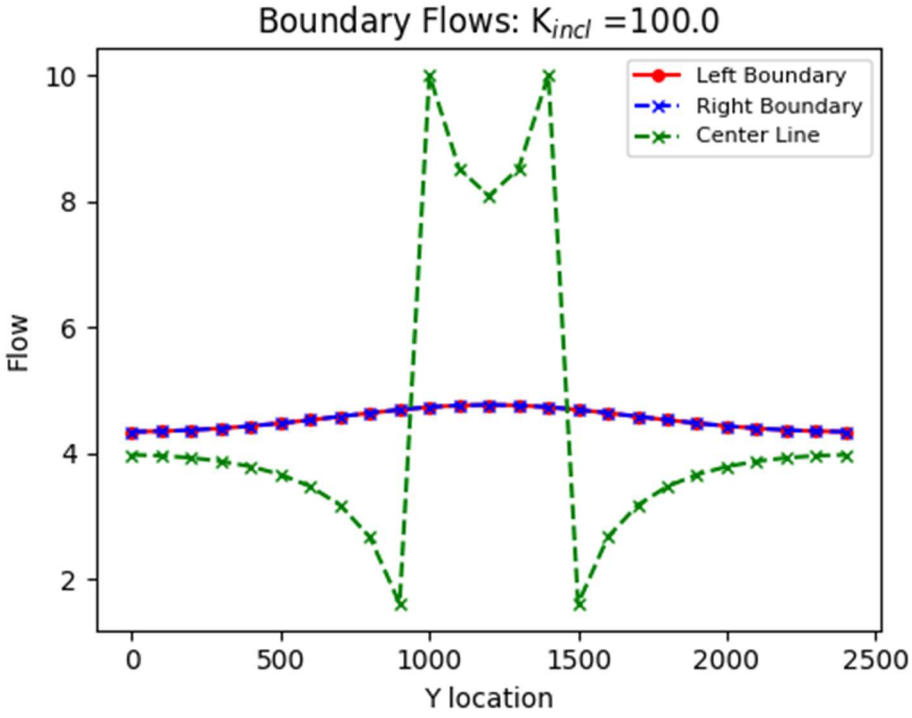
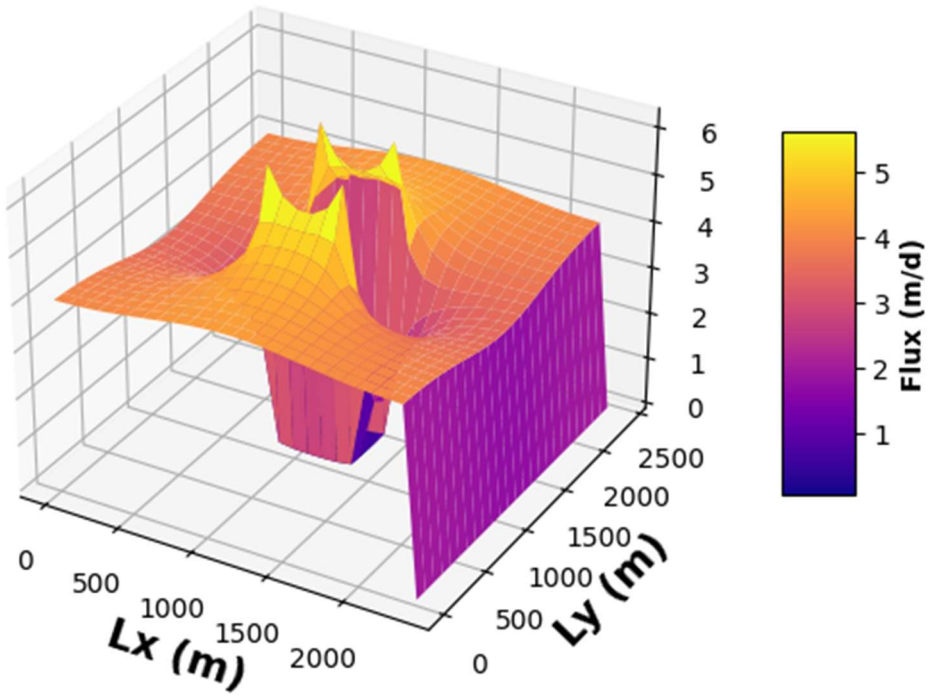
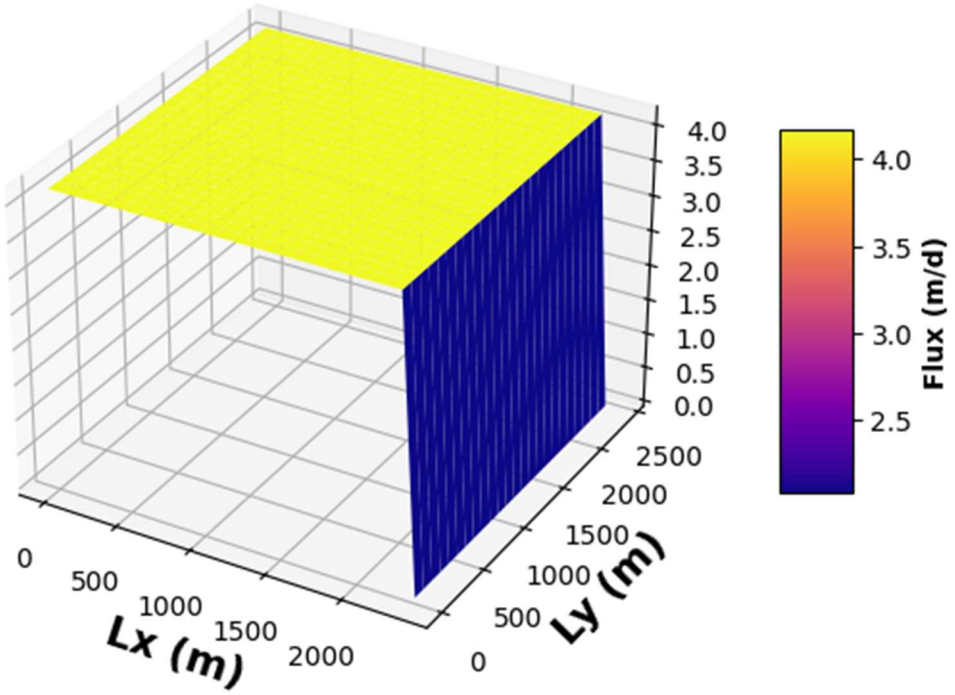


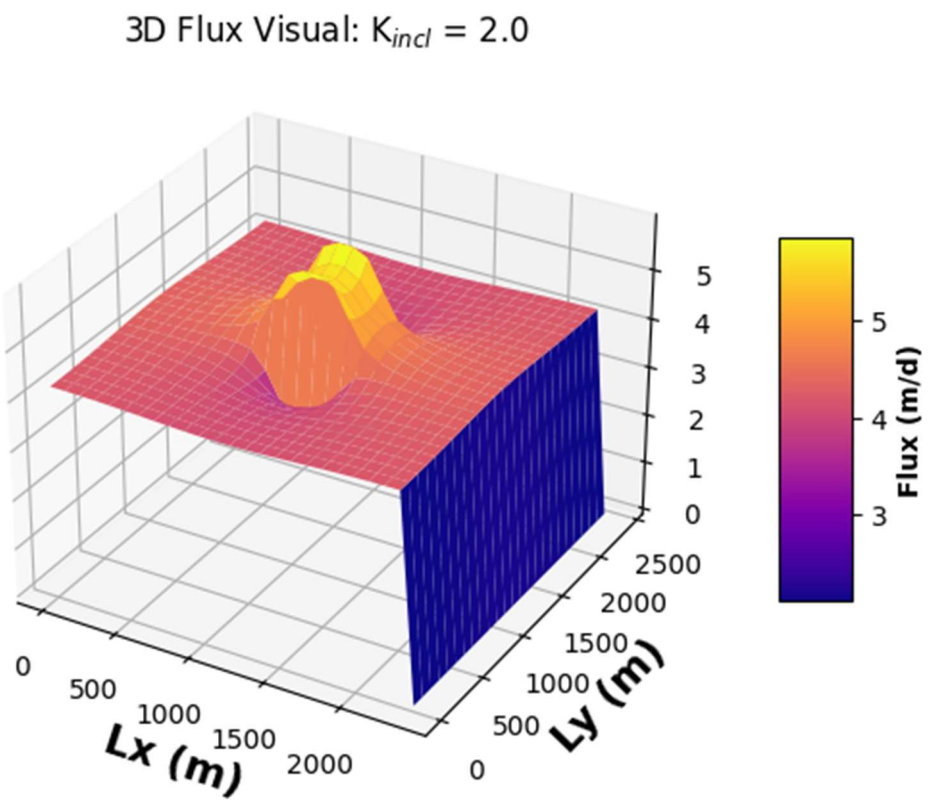
Figure 5: No big changes in flow values/range past $K_{inclusion}$ = 10.0 .

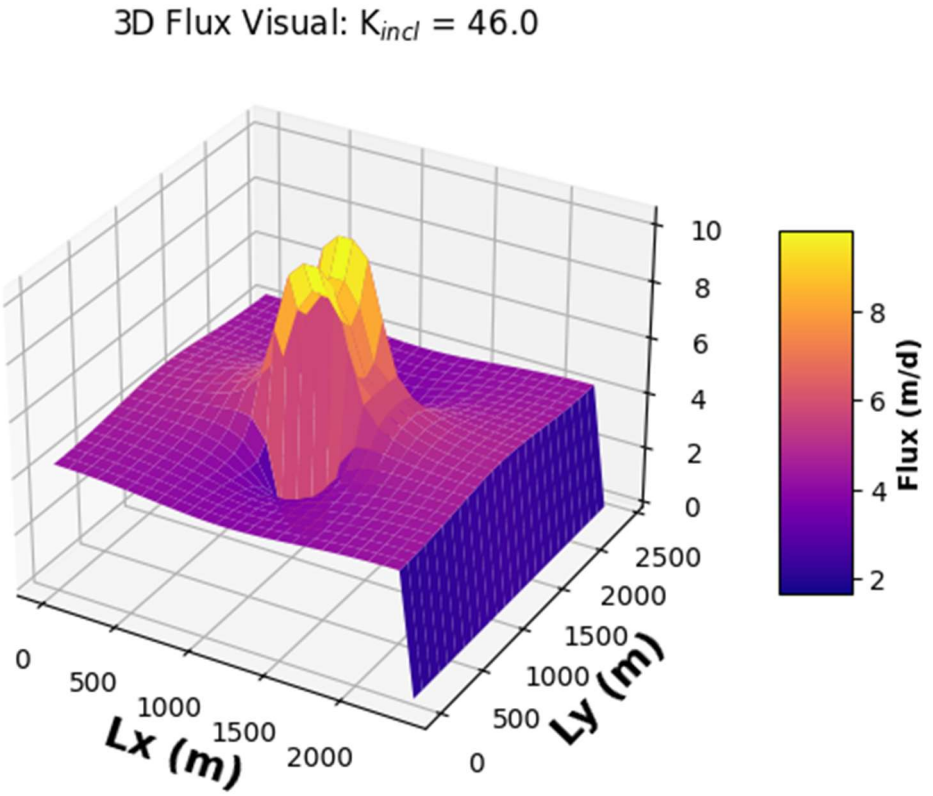
3D Flux Visual: K_{incl} = 0.01



3D Flux Visual: K_{incl} = 1.0




3D Flux Visual: K_{incl} = 2.0
Lx (m)
Ly (m)
Flux (m/d)
0
500
1000
1500
2000
2500
0
1
2
3
4
5


3D Flux Visual: K_{incl} = 46.0
Lx (m)
Ly (m)
Flux (m/d)
0
500
1000
1500
2000
2500
0
2
4
6
8
10