

## My MESH modelling approach

### First step:

- Model the basin using 1 GRU and 1 grid square no matter what the size or heterogeneity
- Optimize using DDS
- Why?
- Forces you to get the data and process it into the correct format (meteorological and streamflow)
- Find out what processes are missing
- Get into the mindset of comparing measured and modelled data and not just streamflow also soil temperature, soil moisture, SWE
- Starts communication between modellers and process people

Next step

- Divide the basin in the GRUs
- For instance in Scotty Creek the natural divisions were channel fens, bogs, and peatlands
- Again calibrate using DDS
- Compare parameters, are they reasonable?
- Continue to compare measured and modelled data
- All this should be done as a collaborations between the modellers and process people
- Is there still anything missing?
- Should the basin be split into grid squares? How many?

- Similar process for all research basins
- Now should have a default (starting point) parameters sets for different land classes
- Keep up the communication