

Team Meeting Minutes

November 13

Marina has found two good datasets

Temperature and Precipitation

Monthly resolution (could use noise to create daily data)

Hydrology model which uses landlab might be too hard to use cos their documentation is bad

Also, looked at a savannah region so it's kind of got the wrong parameters for what we're looking at

Priestly-Taylor equation:

Radiation, temperature, precipitation effects evapotranspiration

So Marina's data has what we need

Draw out any basic visual trends and use these to produce more data

How many years?

15 doesn't have enough time-steps to spread

Easy to just run it for longer

We don't really need to make a decision on how many years the model simulates for

Data passing between Marina's data and the hydrology model

Regular time-step or storm-steps for hydrology model?

We need average temperature, daily max, daily min temperature for every day

How workable is the hydrology model?

Landlab is promising but the model literally doesn't run

It's going to be a long process to produce the model, and it might not be very good

Root and biomass are missing from this model

We can probably fudge things

Do you guys want to keep working on this? Yes.

What are backups? One other package is much simpler.

Two options:

Continue with landlab:

- We can probably get it to run
- Risk that it won't do what we want (50% risk)
- Decent backups

Bail, code something from scratch:

- Would take ages
- Equations are mayyybe fairly simple
- It's probably a huge task that we're underestimating

Continue with landlab till friday.

There are some logistical issues with pairing the two models

Mabel is the boss of passing data between the two models

Mabel does the data conversion from netlogo to landlab

Things that might need to be on patches:

- Elevation
- Have one idealized valleys

Alastair and Mabel:

- Setup analysis framework
- Setup calibration framework and gather moments
- Start writing an outline of the report

Mabel is gonna do a slight team-swap:

- Another project about passing data between models

Benni and Marina:

- Let's try and make landlab work till friday
- Fudge daily max and min data

Next meeting: Thursday and Friday