Hypothesis: Poleward expansion of corals during warm periods, with equatorial decline

Do they manage to survive?

Are they able to keep up with climate changes (may need to calculate climate velocity)

Can the same pattern be seen with the fossil data during the last interglacial? Are we able to come to current coral distributions?

Environmental variables: temperature

* HadSST
* CMIP5
* Paleoclim

Coral Data:

* Present: obis
* Fossil: pbdb

Simulation 1 run with two randomly chosen number of initialisation cells. Carrying capacity for those two cells was set to zero. We started with fecundity 5 and survival rate equals 100 percent. Adult survival rate equals 80 percent. Simple sexual reproduction type and simple two stage model (larva and adult).