Notes IAM\_RICE2

* Where do the undefined constant values come from in the calculate paybacktime function? Dito sigma\_ratio function, idem TFP and population functions
* Why does paybacktime not become zero after the backstop\_competitive\_year? The excel file says it should do so
* Tfp growth and population growth are now taken from an excel but is only given in 10 year timesteps -> If we want to be able to change the timestep then we have to calculate/estimate tfp growth and population growth
* In calculate capital stock equation, why do they multiply investment with the time\_index?
* Why the 12 step linear increase and thereafter constant S -> savings rate?
* SLRDAMAGES in economic net function, why divide by 100?
* Why is the carbon price multiplied by 1000 (carbon price = marginal abatement price)
* Damage function, why multiply by 0.01?
* In the welfare module, why is the elasticity of marginal utility of consumption 1.50/1.45? Isnt it supposed to be between (0,1)
* ~~In pyRICE2022 longrun\_scenario dictates the uncertainty with ‘short term’ or ‘long term’ which hinges on the parameter ‘long\_run\_nordhaus\_tfp\_gr’ which is either 0 or 1. If it is zero, the variable is neglected, if it is 1, he multiplies with the variable (=1) while the equations for tfp\_region and pop\_region seem to be identical otherwise… So how is there a difference if you just multiply by 1?~~
* Economy\_submodel line 200: initialisation of damages. Why this strange form? It is not actually doing the same as the function that calculates the rets of ynet (t = 1 to t=end)