This script has no time loop. It just imports the Chestatee DEM; takes values of E (given as the mean catchment erosion), m\_sp (0.503) and n\_sp (1.224); and calculates an empirical value of K1u using the equation:

(5)

Where j is the number of grid nodes. I calculate values of K1u using E = E1, the mean catchment erosion rate suggested by the land cover scheme. I do this for the mean, min, and max values of E1.

**K1u Values**

* **K1u\_mean = 8.2912443616803223e-07**
* **K1u\_min = 6.4475882661810545e-07**
* **K1u\_max = 1.013490045717959e-06**

Note that this scheme is essentially the same one implemented in the K0\_Empirical step.