## Request for additional changes to proof esurf-2021-33

## **Equation 13**

Unfortunately I have discovered a typo in eq. 13. The first term should include a 2 in the denominator. The correct form of the equation should be:

$$\Delta h = \frac{\overline{R_e}}{2T}x(L-x) + \Delta Hx/L \tag{1}$$

Note that this is purely a typo and does not affect any of the results presented in the manuscript, because the equations used by the model code was correct (see the function analytical\_solution\_h in https://github.com/ElcoLuijendijk/goemod/blob/master/lib/gw\_erosion\_lib.py)

## **Equation 14**

There is another mistake in equation 14. There should be 0.5 in front of the last x. The correct version of the equation is:

$$\Delta h = \frac{\overline{R_e}}{T} x (L_b - 0.5x) \tag{2}$$

Similar to the previous mistake, this does not affect any results because the equation used by the model code was correct, see the function analytical\_solution\_h\_one\_side in https://github.com/ElcoLuijendijk/goemod/blob/master/lib/gw\_erosion\_lib.py.

I would also like to change the units for the frequency of precipitation event i in the text following Eq. 8 from per annum to per second so that the time unit is seconds throughout the equation. (There are currently two different time units used, and I would like this to be standardized.)