REVIEW - EGUSPHERE-2024-1634

Equilibrium distance from long-range dune interactions

Earth Surface Dynamics

$\Rightarrow$ **General reply:**

Dear Editor,

We thank the two anonymous invited reviewers for the second round of reviews, and their positive feedback on the current revised version of the manuscript.

Two minor modifications were however suggested. They have been applied and they are explained below:

- *Check the citation of Zhang et al. (2014) for the implementation of the angle of repose.*
  In the reference Zhang et al. (2014), it is clearly stated that the implementation of an avalanche module in ReSCAL based on a diffusion with threshold mechanism improves the sedimentary patterns associated with gravity-driven granular flows
  $\rightarrow$ See the following paragraph in Zhang et al. (2014) at page 454 "In the model, we consider a so-called diffusion process [...] In order to ensure that the slope is never larger than $\theta c = 35\circ$, Λava $\gg$ Λe in all the numerical simulations described below"
  We also precise that further details are provided in the Supplementary Material S1 of Gao et al. (2016).

- *Include a short summary of the author's response comments on the aspect ratio of cells in the manuscript.*
  Following this comment, we have added two sentences synthesizing the discussion on the non-influence of the elementary cell aspect ratio, at the end of Section 2.1.4.

Kind regards,
The author team.