

Dear Jakob Mann.

Thank you very much for your comments and suggestions. Here are our answers:

Kind regards

Jakob Ilsted Bech.

- 1) There is no reason to have SI units in parenthesis in the equations. WES uses SI as default. I suggest removing these square brackets.

JAKB: removed

- 2) It is good to have a Nomenclature. However, it is not complete. I don't see DTV,  $\rho$ ,  $\rho_l$ ,  $\rho_s$ ,  $v_p^c$  etc. You have also abbreviations in the list but I don't see LER., AOA, GRFP, RET etc. Droplet diameter is "D" but "d" on p5 l2. Furthermore, in order to be useful it should appear in alphabetic order, Roman and Greek separately.

JAKB: it should now be complete

- 3) Do you have permission to show figure 1?

JAKB: yes.

- 4) Eq 3. Should  $\rho$  be  $\rho_l$  and  $c$  be  $c_l$ ?

JAKB: yes, corrected

- 5) p4 l16 ")." missing after 1961.

JAKB: thank you

- 6) Eq 5:  $\rho_p$  is not defined. Typo?

JAKB: yes. I changed it to  $s$  and  $l$  for solid and liquid as in eq. 2,3,4

- 7) Reference Cortés is incomplete.

JAKB: I added the DOI.

- 8) Table 1: The text describing the columns could be improved. Here are some suggestions: "Position of erosion front" instead of "Propagation of erosion", "Tangential speed at erosion front" instead of "Local tangential rotor speed", "Impact/..." is a bit hard to understand (same for axis label on figure 4). Is it number of impacts per square cm projected area at the position of the erosion front?? Text below table seems better placed in the main text or in the table caption.

JAKB: Thank you. I changed to your suggested text, plus a bit

- 9) Do you have permission to reproduce figure 7?

JAKB: yes.

- 10) Table 2 and Figure 9 add little compared to what is already in Figure 10. I think Table 2 and fig 9 should be dropped.

JAKB: I discussed it with Charlotte. Fig. 9 is based on detailed measurements but covers only latitudes between 40°N and 40°S. Fig. 10 covers from pole to pole but is based on less precise measurements and partly by modelling. We think, Table 2 shows additional content compared to the figures, and it gives some actual precipitation numbers from different references. We prefer to keep all three. I hope, you accept this

- 11) p15 l14: private communication with whom?

JAKB: private communication with Niels C. Therkildsen from Total Wind Group (blade repair). But we chose to use a written reference.

- 12) p18 l10: ECS4 appears twice.

JAKB: One is corrected to ECS5

- 13) p29 l5: "paragraph" -> "section".

JAKB: changed!