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Interactive comment on "Deepening roots can enhance carbonate weathering" *by* Hang Wen et al.

Anonymous Referee #4

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Compared to soil organic carbon, inorganic carbon in soil (SIC) is usually ignored in global carbon cycle. Increasing evidences indicates that SIC also plays important role in global carbon cycle. Therefore, this manuscript deals with a very interesting topic, i.e., effect of plants on carbonate weathering. However, I'm not an expert on model, and could not review it. After reading it, I feel that this manuscript has presented a very clear concept on the factors that control carbonate weathering, including temperature, hydrological regimes, and soil CO2 concentration. I just have a comment on it. The deep root systems of plants in some regions (e.g., semi-arid, and semi-humid) may make the deep soil dry, due to the strong transpiration.

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Discussion paper