Review of: "Aerodynamic Design and Performance Analysis of Mars Ascent Vehicles"

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Potential competing interests: No potential competing interests to declare.

The mid-lift-to-drag ratio vehicle possesses larger dimensions and enhanced aerodynamic characteristics compared to the conventional sphere-cone reentry vehicle, suggesting its suitability for crewed missions to Mars. This research employs Computational Fluid Dynamics (CFD) simulations to investigate the influence of varying geometries on the aerodynamic properties of mid-lift-to-drag ratio vehicles. Authors are encouraged to add more comments on the novelties and main contributions of the present paper in the Abstract and last paragraph of the Introduction section.

1. The writing of this paper needs to be improved and polished thoroughly.
2. Why do the authors propose the present structure? The application background should be illustrated clearly.
3. The conclusion should be summarized again. It should discuss the main contribution of the paper. There should be more discussion on the novel findings of the paper, especially compared to the literature.