

Review_1 – is corrected

The authors have addressed my comments. I recommend publication subject to two technical corrections:

- Line 250: please change to 'winch dynamics is considered'. 'Dynamics' is a singular noun. – is corrected
- Figure 10: typo in the caption ('trimm'). – is corrected

Review_2

The overall quality of the manuscript has greatly improved after the revision. However, there are still a few minor issues which may need to be addressed:

- Even though the definition of transition ratio has been corrected on Fig. 9b (formerly Fig. 8b), lines 294 ("the transition ratio, which is the ratio of the aerodynamic force to the gravitational and tether force") and 418 ("and the transition ratio ($F_{a,zb}/G$ ") still provide, to my understanding, contradicting definitions of this ratio. If it is not the case, further clarification may be needed to avoid confusion. Additionally, the use of G in that formula may be confusing in case it is referring to a force and not the gravitational constant G , which I don't think is the case. – I am sorry for the misunderstanding and thank you for this feedback. By transition ratio, I mean the ratio between the lift force (z_b -directed) and the gravitational force (gravity constant * mass).
- Lines 353-354, I assume the "Fuest et al." reference refers to the 2021 one, but I think it should be specified because there are 2 other possible Fuest et al. references in the text. – Ups, the bib file was not updated- thanks
- The whole revised manuscript has " \hat{A}° " instead of " $^\circ$ " now, but I assume it is just a compilation error. – I cannot reproduce this compilation error and the new compiled pdf I don't see any \hat{A}° instead of $^\circ$.

Review_3

The readability is largely improved in the revised manuscript. The reviewer has added minor comments in the attached annotated pdf document. – is corrected

In addition, a few points are listed in the following minor comments.

Minor comments on writing

- Introduce all variables and parameters used in equations. Explain the meaning of subscripts (or superscripts if applicable). – is corrected
- When introducing a vector or matrix, give their dimensions. – is corrected
- The main simulation results are shown in Figures 14 - 16. The vertical-axes of some sub-figures are too compressed to check the numerical details. – is corrected, the graphs are a little larger, and I adjusted the scalings.

In addition, I changed **prop-borne** to **thrust-borne** and **wing-borne** to **lift-borne**

After an in-depth exchange with colleagues, we suggest that these names better describe the physical flight states considered.