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Wind Energy Science Discussion

Date: May 2, 2024
Subject: WES-2023-137 Response to Reviewers

Dear Editor, dear Referees,

Thank you for having revised our manuscript and for the positive feedback. We updated the article to accommodate a suggestion from Referee #3 that makes the description of the results more accurate with respect to the physics of floating wind turbines.

In the process of revising the article, we made (very) small modifications to the text to further improve its clarity. These are highlighted in the latexdiff file.

On behalf of all Authors,
yours sincerely,

Alessandro Fontanella

Response to Anonymous Referee #3

Dear Referee,

Thank you for carefully reviewing the manuscript and for your latest suggestions.

RC3.1	Please check the table format in the final version.
AC3.1	Apparently latexdiff was not able to accommodate the table inside the page limits. We are sorry for this inconvenience. In the clear version of the revised manuscript the table is inside the page limits.

RC3.2	There is only one "minor" point that should be carefully addressed: Along the manuscript, the Authors use the term STATIC tilt but, to my understanding, they refer to the MEAN (dynamic) tilt. Static tilt should be used to refer to the inclination induced by a static load. In the manuscript, the simulations are time-domain and consider dynamic loads, that among other effects induce "mean motions" (due to mean drift loads) either translational or rotational. These mean displacements should not be regarded as STATIC. Please verify and correct, accordingly. Please clarify if it is "static" tilt or "mean" tilt? Static is understood as a condition when only static (time independent) loads are applied. Is this the case?.
AC3.2	Thank you for this comment, You are obviously right. We agree that it is correct to refer to the mean value of the platform rotation that is induced by time-varying loads (thrust and hydrodynamic forces). We revised the manuscript and we replaced "static tilt" with "mean tilt" everywhere in the text.