



Corrigendum to “On the power and control of a misaligned rotor – beyond the cosine law” published in Wind Energ. Sci., 9, 1547–1575, 2024

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Published: 17 November 2025

With this note, we wish to correct a few typesetting errors in Tamaro et al. (2024), which unfortunately went unnoticed during proofreading.

During the production process, Eqs. (A1), (A4a), and (A4b) were incorrectly formatted with respect to our original article.

Equation (A1) should read

$$\underline{v}_n = \begin{bmatrix} \cos \delta & 0 & -\sin \delta \\ 0 & 1 & 0 \\ \sin \delta & 0 & \cos \delta \end{bmatrix} \begin{bmatrix} \cos \gamma & -\sin \gamma & 0 \\ \sin \gamma & \cos \gamma & 0 \\ 0 & 0 & 1 \end{bmatrix} \underline{v}_g, \quad (\text{A1a})$$

$$= \begin{bmatrix} \cos \delta \cos \gamma & -\cos \delta \sin \gamma & -\sin \delta \\ \sin \gamma & \cos \gamma & 0 \\ \sin \delta \cos \gamma & -\sin \delta \sin \gamma & \cos \delta \end{bmatrix} \underline{v}_g. \quad (\text{A1b})$$

Equations (A4a) and (A4b) should, respectively, read

$$\underline{v}_g = \begin{bmatrix} \cos \delta \cos \gamma & \sin \gamma & \sin \delta \cos \gamma \\ -\cos \delta \sin \gamma & \cos \gamma & -\sin \delta \sin \gamma \\ -\sin \delta & 0 & \cos \delta \end{bmatrix} \begin{bmatrix} 1 & 0 & 0 \\ 0 & z \sin \gamma & -z \cos \gamma \sin \delta \\ 0 & z \cos \gamma \sin \delta & z \sin \gamma \end{bmatrix} \underline{v}_d, \quad (\text{A4a})$$

$$= \begin{bmatrix} \cos \delta \cos \gamma & 1/z & 0 \\ -\cos \delta \sin \gamma & z \cos^2 \delta \sin \gamma \cos \gamma & -z \sin \delta \\ -\sin \delta & z \sin \delta \cos \delta \cos \gamma & z \cos \delta \sin \gamma \end{bmatrix} \underline{v}_d. \quad (\text{A4b})$$

In addition, we correct another error that was found in our original article. In Appendix A1, the components of the ambient velocity vector $\underline{u}_\infty$ in the nacelle-attached frame should be $\underline{u}_{\infty_n} = u_\infty \{\cos \delta \cos \gamma, \sin \gamma, \sin \delta \cos \gamma\}^T$. This expression is obtained by using $\underline{u}_{\infty_g} = u_\infty \{1, 0, 0\}^T$ in Eq. (A1b), which simply corresponds to multiplying by u_∞ the first column of the transformation matrix appearing in that equation.

We apologize for these errors and any confusion they may have caused.

Acknowledgements. The authors thank Jan Krause of Technical University of Munich for bringing these errors to their attention.