

Review: A parameterization scheme for the floating wind farm in a coupled atmosphere-wave model (COAWST v3.7)

I appreciate the authors response to all my comments and the changes made to the manuscript. I believe the changes made to the manuscript have made it clearer. I would appreciate clarification on a couple of points prior to publication.

1. Inflow wind speed in FWP: In Sect. 5.1, the authors propose an inflow wind speed to the turbine $V_{ijk|wt}$ that differs from the horizontal wind speed in the grid cell V_{ijk} . It is not clear how the inflow wind speed $V_{ijk|wt}$ is derived from V_{ijk} . The authors provide a short explanation on why $V_{ijk|wt}$ differs from V_{ijk} in Lines 312-315. Perhaps a flow chart like Fig. 1 in DOI: 10.1175/MWR-D-20-0097.1 comparing the FWFP and Fitch WFP might help clarify this point.
2. Line 295-298: The authors suggest the turbines in the upstream region of the wind farm “absorb” less momentum in the FWFP than in the Fitch WFP. However, wouldn’t the reduced friction velocity from the FWFP result in faster winds impacting the turbine? If so, then the turbines would extract more momentum from the wind in the FWFP compared to the Fitch WFP. Is it possible that the increased drag of the entire wind farm (increased power extraction) in the FWFP compared to the Fitch WFP produces a stronger blockage effect upstream of the wind farm?