**Comments on the paper “A vorticity meter for the Arctic Ocean: Sea ice floe dispersion reveals mesoscale dynamics”**

Line 10: add reference to Comiso et al. for sea ice extent decrease

Line 14: the width of the MIZ is increasing, but the total area of MIZ is not increasing. Overall the sentence here needs to be clarified, there’s some grammar issues

Line 19: implication is that Fig 1A shows a type of sea ice that is new to the Arctic, which is not correct.

Line 26-30: the current understanding is that sea ice motion arises from a complex momentum balance. MIZ motion doesn’t defy current understanding, rather, it is difficult to predict because we don’t have frequent high-quality measurements of ocean currents, ocean and atmosphere boundary layer structures, waves, and ice surface roughness.

Line 36: is it key? How sensitive are climate predictions to MIZ