All of the eddy detection/tracking methods employed are Eulerian, streamline based. Thus conclusions for transport drawn from their application are \textit{observer dependent}. The authors don't seem to be aware of (have intentionally chosen to ignore?) progress made on objective vortex framing during the last decade. Andrade-Canto et al. (2020, \textit{Physics of Fluids} \textbf{32}, 116603, https://doi.org/10.1063/5.0030094) reviews the issue with observer-dependent detection of eddies (including the simple minded $U/c > 1$ condition) with Loop Current rings as the main focus. The authors cite - out of context - Andrade-Canto et al. in a GRL paper of theirs, but they do not do it here while it is clearly relevant (supporting my suspicion above). The notion of flow invariance discussed in Andrade-Canto et al. (and many papers cited therein) may not be familiar to oceanographers, but it is key to unequivocally frame the vortex notion. This ms should not be published.